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American Mathematical Society
Providence, Rhode Island

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- Hofmann, Joseph Ehrenfried) *See* Collection: Hofmann, Joseph Ehrenfried, (48 #5792)
- Hopf, Eberhard) *See* Collection: Hopf, Eberhard, (52 #5244)
- Kantorovič, L. V.) *See* Collection: Kantorovič, L. V., (48 #5780)
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 Schmidt, Adam See Collection: Schmidt, Adam, (52 #7752)
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- Aiyar, V. Ramaswami ★(Volume dedicated to the memory of V. Ramaswami Aiyar). (48 #3671)
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 Aleksandrjan, R. A. ★(Collection of articles dedicated to Rafael' Aramovič Aleksandrjan on the occasion of his fiftieth birthday). (48 #12)
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 Bhatnagar, Prabhu L. ★(Collection of articles dedicated to Professor P. L. Bhatnagar on his sixtieth birthday). (52 #10304)
 Bomplani, Enrico ★(Collection in memory of Enrico Bompiani). (53 #10523)
 Brelot, Marcel ★(Collection of articles dedicated to Marcel Brelot on the occasion of his 70th birthday). (52 #11076)
 Busemann, Adolf ★(Collection of articles dedicated to Professor Adolf Busemann). (52 #10303)
 Călugăreanu, Gheorge ★(Collection of articles dedicated to G. Călugăreanu on his seventieth birthday). (48 #10)
 Carnap, Rudolf ★(Collection of articles in honor of Rudolf Carnap). (48 #48)
 Cartan, Henri ★(Collection of articles dedicated to Henri Cartan on the occasion of his 70th birthday. I). (49 #7052)
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- articles dedicated to Alfred Hoblitzelle Clifford on the occasion of his 60th birthday and to Alexander Doniphan Wallace on the occasion of his 60th birthday). (51 #5224)
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 Dibner, Bern ★(Collection of articles dedicated to Bern Dibner). (52 #13114)
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 ★(Collection of articles dedicated to the memory of George E. Forsythe). (48 #5747)
 Gauß, Carl Friedrich ★(Special issue dedicated to Carl Friedrich Gauss). (56 #2711)
 Gołab, Stanisław ★(Collection of articles dedicated to Stanisław Gołab on his 70th birthday. I). (48 #8164)
 ★(Collection of articles dedicated to Stanisław Gołab on his 70th birthday. II). (49 #7055)
 Grabmann, Martin ★(Collection of articles dedicated to the memory of Martin Grabmann). (52 #2790)
 Haack, Wolfgang ★(Collection of articles dedicated to Wolfgang Haack on the occasion of his 70th birthday). (52 #5247)
 Hamaker, Hugo C. ★(Collection of articles in honour of Professor H. C. Hamaker). (50 #5998)
 Hasse, Helmut ★(Collection of articles dedicated to Helmut Hasse on his seventy-fifth birthday). (48 #212)
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 ★(Collection of articles dedicated to Helmut Hasse on his seventy-fifth birthday. III). (51 #2817)
 Heinrich, Helmut ★(Collection of articles dedicated to Helmut Heinrich on the occasion of his seventieth birthday). (51 #2818)
 Hestenes, Magnus R. ★(Collection of articles dedicated to Magnus R. Hestenes). (49 #7053)
 Hofmann, Joseph Ehrenfried ★(Collection of articles dedicated to J. E. Hofmann on the occasion of his seventieth birthday). (48 #5792)
 Hopf, Eberhard ★(Collection of articles dedicated to Eberhard Hopf on the occasion of his 70th birthday). (52 #5244)
 Householder, Alston S. ★(Collection of articles honoring Alston S. Householder). (50 #3515)
 Ingarden, Roman Stanisław ★(Collection of articles dedicated to the memory of Roman Ingarden). (51 #12451)
 Juan, Jorge ★(Collection of articles dedicated to Jorge Juan on the 200th anniversary of his death). (53 #12832)
 Kantorovič, L. V. ★(Сборник трудов посвященных Л. В. Канторовичу в связи с его шестидесятилетием). (Russian) [Collection of articles dedicated to L. V. Kantorovič on the occasion of his sixtieth birthday] (48 #5780)
 Kashiwagi, Sadao ★(Collection of articles dedicated to Sadao Kashiwagi). (51 #7764)
 Korobkov, V. K. ★(A collection of articles dedicated to the memory of Vitalii Konstantinovič Korobkov). (Russian) (49 #10494)
 Kupradze, V. D. ★(Collection of articles dedicated to Academician V. D. Kupradze on the occasion of his 70th birthday). (Russian) (52 #10302)
 Kuroš, A. G. ★(Сборник статей посвященных светлой памяти Александра Геннадиевича Куроша). (Russian) [Collection of articles commemorating Aleksandr Gennadijevič Kuroš] (48 #20)
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 Laptev, G. F. ★(Collection of articles dedicated to the memory of German Fedorovič Laptev). (Russian) (48 #9563)
 Lehmer, Derrick Henry ★(Collection of articles dedicated to Derrick Henry Lehmer on the occasion of his seventieth birthday). (50 #1791)
 Linnik, Ju. V. ★(Collection of articles in memory of Jurii Vladimirovič Linnik). (50 #9757)
 Lorentz, Georg Gunther ★(Collection of articles dedicated to G. G. Lorentz on his sixty-fifth birthday. I). (50 #1792)
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 ★(Collection of articles dedicated to G. G. Lorentz on the occasion of his sixty-fifth birthday. IV). (50 #13974)
 Magnus, Wilhelm ★(Collection of articles dedicated to Wilhelm Magnus). (48 #1838)
 Mahler, Kurt ★(Collection of articles dedicated to K. Mahler on the occasion of his seventieth birthday). (50 #4456)
 Manea, Gheorghe ★(Collection of articles dedicated to Gheorghe Manea on the occasion of his seventieth birthday). (52 #7753)
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 Mateescu, Cristea ★(Volume dedicated to Professor Cristea Mateescu on the occasion of his 80th birthday). (54 #9910)
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 Mioc, Vasile ★(Collection of articles dedicated to Vasile Mioc on his seventieth birthday). (48 #8167)

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- Mitrinović, Dragoslav S.** ★{Collection of articles in honor of D. S. Mitrinović. (54 #7155)}
- Moisil, Grigore Costantin** ★{Collection of articles dedicated to the memory of Grigore C. Moisil}. (49 #4703)
- Moshinsky, Elena and Moshinsky, Marcos** ★{Collection of articles dedicated to Elena Moshinsky and Marcos Moshinsky}. (54 #4885)
- Mostowski, Andrzej Włodzimierz** ★{Collection of articles dedicated to Andrzej Mostowski on the occasion of his sixtieth birthday. I}. (48 #1870)
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★{Collection of articles dedicated to Andrzej Mostowski on the occasion of his sixtieth birthday. V}. (49 #2213)
★{Collection of articles dedicated to Andrzej Mostowski on the occasion of his sixtieth birthday. VII}. (50 #1793)
- Mushelišvili, N. I.** ★{Сборник статей посвященных академику Н. И. Мухелишвили к 80-летию со дня рождения. (Russian) [Collection of articles dedicated to Academician N. I. Mushelišvili on the occasion of his eightieth birthday]}. (48 #5779)
★{Collection of articles dedicated to Nikolaĭ Ivanovič Mushelišvili on the occasion of his 80th birthday}. (55 #6)
★{Collection of articles dedicated to Nikolai Ivanovich Mushelišvili}. (51 #8)
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- Nečiporuk, Ė. I.** ★Сборник статей посвященных памяти Эдуарда Ивановича Нечипорука. (Russian) [Collection of articles dedicated to the memory of Ėduard Ivanovič Nečiporuk]. (49 #2214)
- Neumann, Hanna** ★{Collection of articles dedicated to the memory of Hanna Neumann. I}. (48 #13)
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★{Collection of articles dedicated to the memory of Hanna Neumann. VII}. (50 #4)
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- Neustadt, Lucien W.** ★{Collection of articles dedicated to the memory of Lucien W. Neustadt}. (49 #2215)
- Neyman, Jerzy** ★{Collection of articles dedicated to Jerzy Neyman on his 80th birthday}. (48 #9899)
- Nikoľskii, S. M.** *See Theory of functions and its applications*, (51 #13518)
- Norden, A. P.** ★{Collection of articles dedicated to Aleksandr Petrovič Norden on the occasion of his seventieth birthday}. (49 #7051)
- Olszak, Wacław** ★{Collection of articles dedicated to Professor Wacław Olszak on his seventieth birthday}. (50 #9463)
- Petrovskii, I. G.** ★{Collection of articles dedicated to the memory of Ivan Georgievič Petrovskii}. (48 #8166)
★{Collection of articles dedicated to the memory of Ivan Georgievič Petrovskii (1901–1973). I}. (51 #2820)
★{Collection of articles dedicated to the memory of Ivan Georgievič Petrovskii (1901–1973). II}. (51 #2821)
★{Collection of articles dedicated to the memory of Ivan Georgievič Petrovskii (1901–1973). IV}. (51 #5420)
★{Collection of articles dedicated to the memory of Ivan Georgievič Petrovskii (1901–1973). III}. (51 #6097)
★{Collection of articles dedicated to the memory of Ivan Georgievič Petrovskii (1901–1973). V}. (51 #12137)
- Picone, Mauro** ★{Collection of articles dedicated to Mauro Picone on the occasion of his ninetieth birthday}. (51 #7)
★{Collection of articles dedicated to Mauro Picone on the occasion of his ninetieth birthday. II}. (51 #9998)
- Plakidis, Stavros M.** *See In honor of Stavros M. Plakidis*, (49 #4706)
- Pogorzelski, Witold A.** ★{Collection of articles in memory of Witold Pogorzelski}. (48 #14)
- Prager, William** ★{Collection of articles dedicated to William Prager on the occasion of his seventieth birthday}. (48 #1566)
- Răduleț, Remus** ★{Collection of articles dedicated to Remus Răduleț on his 70th birthday. I}. (51 #9)
★{Collection of articles dedicated to Remus Răduleț on his 70th birthday. II}. (51 #10)
- Rényi, Alfréd** ★{Collection of articles dedicated to the memory of Alfréd Rényi. I}. (48 #3657)
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- Sansone, Giovanni** ★{Collection of articles dedicated to Giovanni Sansone on the occasion of his eighty-fifth birthday}. (52 #2783)
- Satō, Isuke** ★{Collection of articles dedicated to Isuke Satō on the occasion of his retirement}. (54 #10)

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- Schiffer, Menahem M.** ★{Special issue dedicated to Max M. Schiffer on the occasion of his 65th birthday}. (55 #2426)
- Schmidt, Adam** ★{Collection of articles dedicated to Adam Schmidt on the occasion of his 65th birthday}. (52 #7752)
- Schoenberg, Isaac Jacob** ★{Collection of articles dedicated to Isaac Jacob Schoenberg on his 70th birthday. I}. (48 #8153)
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- Serre, Jean-Pierre** ★{Collection of articles dedicated to Jean-Pierre Serre. Part I}. (53 #12821)
★{Collection of articles dedicated to Jean-Pierre Serre. Part II}. (54 #7156)
- Shimizu, Tatsujiro** ★{Collection of articles dedicated to Tatsujiro Shimizu on the occasion of his 77th birthday}. (52 #10305)
- Siegel, Carl Ludwig** ★{Collection of articles dedicated to Carl Ludwig Siegel on the occasion of his seventy-fifth birthday. I}. (48 #209)
★{Collection of articles dedicated to Carl Ludwig Siegel on the occasion of his seventy-fifth birthday. II}. (48 #210)
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- Ślebodziński, Władysław** ★{Collection of articles commemorating Władysław Ślebodziński}. (48 #4920)
- Smirnov, V. I.** ★{Collection of articles dedicated to the memory of Academician V. I. Smirnov}. (51 #2819)
- Snedecor, George W.** *See Statistical papers in honor of George W. Snedecor*, (54 #6337)
- Soriano, Luis Ignacio** ★{Collection of articles dedicated to the memory of Luis I. Soriano (1903–1973)}. (49 #7057)
- Srinivasengar, C. N.** ★C. N. Srinivasengar dedication volume. (48 #1839)
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- Taussky, Olga** ★{Collection of articles dedicated to Olga Taussky-Todd}. (52 #5245)
★{Collection of articles dedicated to Olga Taussky Todd}. (52 #5246)
- Téng, Ching Hua** ★{Collection of articles dedicated to Professor Tsing Houa Teng on the occasion of his 70th birthday}. (49 #2217)
- Vinogradov, I. M.** ★Collection of articles. I: Dedicated to Academician I. M. Vinogradov on the eightieth anniversary of his birth. (49 #7049)
★Collection of articles. II: Dedicated to Academician I. M. Vinogradov on the eightieth anniversary of his birth. (49 #7050)
- Vulih, B. Z.** ★{Collection of articles dedicated to Boris Zaharovič Vulih on the occasion of his sixtieth birthday}. (53 #8846)
- Walsh, John E.** ★{Collection of articles dedicated to the memory of John E. Walsh}. (49 #10491)
- Walsh, Joseph L.** ★{Collection of articles dedicated to J. L. Walsh on his 75th birthday. I}. (48 #8156)
★{Collection of articles dedicated to J. L. Walsh on his 75th birthday. II}. (48 #8157)
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- Ważewski, Tadeusz** ★{Collection of articles dedicated to the memory of Tadeusz Ważewski}. (48 #10736)
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★{Collection of articles dedicated to the memory of Tadeusz Ważewski. IV}. (51 #5225)
- Weinstein, Alexander** ★{Collection of articles dedicated to Alexander Weinstein on the occasion of his 75th birthday}. (52 #5243)
- Zygmund, Antoni** ★{Collection of articles honoring the completion by Antoni Zygmund of 50 years of scientific activity. I}. (48 #5749)
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- Soochow University** ★{Collection of articles in commemoration of the 75th anniversary of the founding of Soochow University}. (53 #4)

Colloque:

Analyse et Topologie en l'Honneur de Henri Cartan ★ Colloque "Analyse et Topologie" en l'Honneur de Henri Cartan. (53 #2565)

Colloquia Mathematica Societatis János Bolyai See Infinite and finite sets, (50 #12526)

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Commemoration volumes for Prof. Dr. Akitsugu Kawaguchi's seventieth birthday

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- Berry, Gérard Bottom-up computation of recursive programs. (Loose French summary) **53** #14960
- Blum, Manuel (with Sakoda, William J.) On the capability of finite automata in 2 and 3 dimensional space. **58** #32071
- (Böbling, Karl Heinz) See Fachtagung: Gesellschaft für Informatik, Automatentheorie

- und Formale Sprachen, (48 #3285)
 (Indermark, Klaus) See Fachtagung: Gesellschaft für Informatik, Automatentheorie und Formale Sprachen, (48 #3285)
 Kreisel, Georg Some reasons for generalizing recursion theory. (48 #46)
 Sakoda, William J. See Blum, Manuel, (58 #32071)
 Stegmüller, Wolfgang ★Unvollständigkeit und Unentscheidbarkeit. (53 #5283)
 Automata See Fachtagung: Gesellschaft für Informatik, Automatentheorie und Formale Sprachen, (48 #3285)

Fachtagung:

- Gesellschaft für Informatik, Automatentheorie und Formale Sprachen ★Erste
 Fachtagung der Gesellschaft für Informatik über Automatentheorie und Formale Sprachen (Bonn, 9.-12. Juli 1973). (48 #3285)

- Formal languages See Fachtagung: Gesellschaft für Informatik, Automatentheorie und Formale Sprachen, (48 #3285)

- Programs See Symposium: Basic Theory of Programs, (54 #4160)

Symposium:

- Basic Theory of Programs ★"Program no Kiso Riron" Kenkyū shūjo
 (5/16-18/1973) oyobi tanki kyōdō kenkyū "Algorithm ni okeru Shōmei Ron"
 (11/5-16/1974). Hōkoku shū. (Japanese) [The Third Symposium on Basic Theory of Programs (May 16-18, 1973) and the Workshop for Proof Theory about Algorithms (Nov. 5-16, 1974). Proceedings] (54 #4160)

Workshop:

- Proof Theory about Algorithms See Symposium: Basic Theory of Programs, (54 #4160)

02F05 Thue and Post systems, etc.

- Büchi, J. Richard (with Hosken, William H.) Canonical systems which produce periodic sets. 50 #6811
 Calude, Cristian One construction grammaticale des codages de Gödel. (English summary) 55 #87
 Gorlov, V. V. Congruences on closed Post classes. (Russian) 48 #10781
 Grinblat, V. A. On the applicability problem for normal algorithms. (Russian) 53 #12904
 Hosken, William H. Some Post canonical systems in one letter. 55 #12485
 See also Büchi, J. Richard, 50 #6811
 Hughes, Charles E. (with Singletary, W. E.) Combinatorial systems defined over one- and two-letter alphabets. 53 #105
 Istrail, Sorin Tag systems generating Thue irreducible sequences. 58 #5110
 Maslov, S. Ju. (with Rusakov, E. D.) Probabilistic canonical calculi. (Russian. English summary) 49 #8829
 Mutation calculi. (Russian. English summary) 52 #7876
 Nicolescu, Radu Some remarks on the theory of normal algorithms. 50 #1855
 Nivat, Maurice Congruences de Thue et t -langages. 45 #1764
 Overbeek, Ross A. The representation of many-one degrees by the word problem for Thue systems. 47 #3147
 Raś, Z. Semi-Thue systems as deductive systems of certain computing machines. (Russian summary) 46 #8820
 Reedy, Ann (with Savitch, Walter J.) The Turing degree of the inherent ambiguity problem for context-free languages. 52 #10381
 Rusakov, E. D. See Maslov, S. Ju., 49 #8829
 Savitch, Walter J. See Reedy, Ann, 52 #10381
 Singletary, W. E. See Hughes, Charles E., 53 #105
 Şoll, Adrian Remarks on uniform tag sequences. 58 #16216
 Yasuhara, Ann Some non-recursive classes of Thue systems with solvable word problem. 50 #9551
 Žarov, V. G. The complexity of the universal normal algorithm. (Russian) 53 #7740

Secondary classifications:

- Bärzdiņš, J. On synthesizing programs given by examples. (56 #1770)
 Blohina, G. N. (with Kudrjavcev, V. B.; Burosch, Gustav) Das Problem der Vollständigkeit für Boolesche Funktionen über zwei Dualmengen mit nichtleerem Durchschnitt. I. (49 #8848)
 Burosch, Gustav See Blohina, G. N.; et al., (49 #8848)
 Cleave, John P. Combinatorial systems. II. Non-cylindrical problems. (52 #5392)
 Hughes, Charles E. Degrees of unsolvability associated with Markov algorithms. (49 #7129)
 Many-one degrees associated with semi-Thue systems. (48 #5838)
 Kudrjavcev, V. B. See Blohina, G. N.; et al., (49 #8848)
 Loexck, Jacques ★Algorithmentheorie. (57 #4554)
 Mal'cev, I. A. Certain properties of cellular subalgebras of Post algebras and of their basic cells. (Russian) (48 #5855)
 Congruences and automorphisms on the cells of Post algebras. (Russian) (48 #5856)
 Maslov, S. Ju. The search for deduction in calculi of general type. (Russian. English summary) (49 #8845)
 Mostowski, Andrzej Recursively enumerable degrees of programming problems. (58 #5138)
 Priese, Lutz ★Normalformen von Markov'schen und Post'schen Algorithmen: Eine Einführung in die Theorie der normierten Algorithmen. (57 #5702)
 Reversible Automaten und einfache universelle 2-dimensionale Thue-Systeme. (58 #5111)
 Red'ko, V. N. Definitor-theoretic aspects of languages. (Russian) (55 #13889)
 Romov, B. A. The unprimitive foundations of the maximal subalgebras of Post algebras. (Russian. English summary insert) (47 #8666)
 Rosenbloom, Paul C. Structural models for use in psychological research. (56 #17927)
 Singletary, W. E. Many-one degrees associated with partial propositional calculi. (50 #1862)
 Townsend, Robert A decidability result in algebraic language theory. (53 #4651)

02F10 Automata [See also 18B20, 68A25, 94A30, 94A35.]

- Aanderaa, Stål O. A proof of Higman's embedding theorem using Britton extension groups. 54 #412
 Adjan, S. I. The works of P. S. Novikov and his students on algorithmic questions in algebra. (Russian) 54 #10424
 Aladjev, Victor Z. Certain estimates for Neumann-Moore structures. (Russian. English and English summaries) 57 #5706
 Aprile, Giuseppe Sulla sintassi della notazione polacca. 51 #10052
 Asser, Günter Bemerkungen zum Labyrinth-Problem. (English and Russian summaries) 58 #174
 de Bakker, J. W. ★Recursive procedures. 49 #7121
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 Baxter, Rodney J. On unlimited register machines. 50 #6812
 Beck, Heinrich Die mit Nestedstackautomaten berechenbaren Funktionen sind elementar. 58 #175
 Bel'tjukov, A. P. An iterative description of the class \mathcal{E}^1 in Grzegorzczak's hierarchy. (Russian. English summary) 58 #27385
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 Katerinočkina, N. N. The equivalence of certain computational equipment. (Russian. English summary insert) 45 #1766
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 Kurmitis, A. On the question of the enumerability and representability of sets of words by means of finite automata. (Russian) 47 #3148
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 Lewis, Harry R. Description of restricted automata by first-order formulae. 52 #284
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 Meyer, Albert R. (with Fischer, Patrick C.) Computational speed-up by effective operators. 47 #6457
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 Moll, Robert (with Meyer, Albert R.) Honest bounds for complexity classes of recursive functions. 50 #9552
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 Stackautomaten in Labyrinthen. 50 #4264
 Endliche Automaten und Labyrinth. (English and Russian summaries) 47 #4773
 Nabebin, A. A. Multitape automata in a unary alphabet. (Russian) 58 #27387
 Narushima, Hiroshi See Nojima, Susumu; et al., 49 #7122
 Nojima, Susumu (with Oohara, Shigeyuki; Narushima, Hiroshi) A tag type automaton with a double reading head. 49 #7122
 (Novikov, P. S.) See Adjan, S. I., 54 #10424
 Oohara, Shigeyuki See Nojima, Susumu; et al., 49 #7122
 Orlov, V. A. A simple proof of the algorithmic undecidability of certain problems on completeness of automaton bases. (Russian. English summary) 48 #5831
 Ostrouhov, D. A. On the coding of natural numbers with the aid of schemes of normal algorithms. 45 #3209
 Ottmann, Thomas Ketten und arithmetische Prädikate von endlichen Automaten. 55 #10254
 Arithmetische Prädikate über einem Bereich endlicher Automaten. 55 #7751
 Paterson, Michael S. See Valiant, Leslie G., 52 #55
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- rosjan, G. N. The class of bases with a solvable inclusion problem. (Russian. Armenian summary) 52 #7877
- lovčenko, R. I. Nondeterministic schemes of algorithms. (Russian) 47 #3149
- se, Lutz Reversible Automaten und einfache universelle 2-dimensionale True-Systeme. 58 #5111
- in, Michael O. ★Automata on infinite objects and Church's problem. 48 #75
- z, Z. On a relationship between the propositional calculus and a grammar. (Russian summary) 47 #1584
- On a relationship between certain grammars and enumerable first order predicate calculi. (Russian summary) 47 #1585
- ie, David C. Representation and design of production systems. 55 #12487
- zen, S. Ī. A counterexample in the theory of automaton equivalence types. (Russian) 58 #21517
- oenberg, Grzegorz The unsolvability of the isomorphism problem for address machines. 46 #1571
- ubert, L. K. Iterated limiting recursion and the program minimization problem. 57 #2893
- urmann, A. Functions computable by a computer. (Polish and Russian summaries) 47 #6458
- hi, Ravi Testing for the Church-Rosser property. 51 #10053
- ordev, Dimit'r Certain combinatory spaces that are connected with the complexity of data processing. (Russian) 53 #12905
- owron, Andrzej Machines with input and output. 54 #4940
- Stored program machines. (Russian summary) 58 #10357
- ntag, Eduardo D. On some questions of rationality and decidability. 54 #4941
- illiant, Peter H. Über diagnostische Strategien an determinierten Automaten. 52 #5387
- Entscheidungsprobleme für autonome Mehrbandautomaten. 58 #177
- dborough, I. Hal On tape-bounded complexity classes and multihead finite automata. 51 #87
- niguchi, Ken-ichi (with Kasami, Tadao) Some decision problems for two-dimensional nonwriting automata. 48 #8211
- usten, V. Š. The solvability of the uniform halting problem in the class of two-state Post machines. (Russian. English summary insert) 58 #5112
- ponen, Topi On regular expressions possessing the empty word property. 47 #4774
- illiant, Leslie G. (with Paterson, Michael S.) Deterministic one-counter automata. 52 #55
- agner, Klaus Zur Axiomatisierung eines sequentiellen Aussagenkalküls. (Russian, English and French summaries) 48 #8212
- (with Wechsung, Gerd) Complexity hierarchies of oracles. 58 #10358
- Eine topologische Charakterisierung einiger Klassen regulärer Folgenmengen. (English and Russian summaries) 58 #27388
- aiat, A. Some properties of k -machines. (Russian summary) 46 #1572
- echsung, Gerd See Wagner, Klaus, 58 #10358
- erner, Georges Quelques remarques sur la complexité des algorithmes. (Loose English summary) 45 #6628
- inkowski, Józef Composed abstract machines. (Russian summary) 46 #8822
- ung, Paul D. See Helm, John, 46 #5119
- akowski, Wojciech Controlled (Z, Q) -machines and generalized (Z, Q) -computable sets. (Russian summary) 53 #2652
- embrzusi, K. On d -machines. (Russian summary) 50 #1856
- On d -machine representation of continuous functions. (Russian summary) 50 #1857
- ronkin, A. K. (with Levin, L. A.) The complexity of finite objects and the basing of the concepts of information and randomness on the theory of algorithms. (Russian) 46 #7004
- Secondary classifications:
- izerman, M. A. (with Gusev, L. A.; Rozonoér, L. I.; Smirnova, I. M.; Tal', A. A.) ★Logika, automaty a algoritmy. (Czech) [Logic, automata and algorithms] (48 #1818)
- är, Gunter Zur linearen Darstellbarkeit von Ausdrücken des Aussagenkalküls. (English and Russian summaries) (47 #4756)
- ärzdlnä, J. Prediction and identification in the limit of finite automata. (Russian) (58 #33587)
- enda, Václav (with Bendová, Kamila) Recognizable filters and ideals. (53 #14984)
- endová, Kamila See Benda, Václav, (53 #14984)
- énéjam, Jean-Pierre Algebraic characterizations of the satisfiability of first-order logical formulas and the halting of programs. (58 #10396)
- lrjukova, L. A. The l -completeness of functions with delays. (Russian) (53 #2548)
- iichi, J. Richard Using determinacy of games to eliminate quantifiers. (58 #16244)
- penko, V. P. See Jakubaitis, Ė. A.; et al., (55 #10161)
- hinal, Jean P. ★Techniques booléennes et calculateurs arithmétiques. (50 #9435)
- ★Design methods for digital systems. (50 #9436)
- Chomsky, Noam See Gross, Maurice; et al., (50 #15451)
- houeka, Yacov A. Theories of automata on ω -tapes: a simplified approach. (49 #7124)
- hytil, Michal P. Crossing-bounded computations and their relation to the LBA-problem. (53 #12079)
- onstable, Robert L. The operator gap. (47 #3159)
- ulík, Karel A note on comparison of Turing machines with computers. (54 #11853)
- Dörr, Johannes See Automatentheorie und formale Sprachen, (48 #7643)
- ischer, Michael J. See Lynch, Nancy Ann; et al., (53 #7742)
- écség, F. (with Székely, S.) On equational classes of unoids. (47 #6591)
- insburg, Seymour (with Rose, Gene F.) The equivalence of stack-counter acceptors and quasi-realtime stack-counter acceptors. (48 #12881)
- lagolev, V. V. See Vasil'ev, Ju. L.; et al., (49 #12192)
- luškov, V. M. (with Letičev'skii, O. A.) Theory of discrete transformers. (Russian) (49 #10184)
- Gobzemis, A. Ju. See Jakubaitis, Ė. A.; et al., (55 #10161)
- Grigor'ev, D. Ju. Kolmogorov algorithms are stronger than Turing machines. (Russian. English summary) (58 #27374)
- Gross, Maurice (with Lentin, André) ★Mathematische Linguistik. (50 #15451)
- Gusev, L. A. See Aizerman, M. A.; et al., (48 #1818)
- Hačatrian, V. E. The permutability of logical graphs. (Russian. English summary insert) (58 #19368)
- (Hotz, Günter) See Automatentheorie und formale Sprachen, (48 #7643)
- Hummitzsch, Peter Zur schwachen Äquivalenz von endlichen Automaten. (Russian and English summaries) (48 #1824)
- Jakubaitis, Ė. A. (with Vasjukevič, V. O.; Gobzemis, A. Ju.; Zaznova, N. E.; Kurmitis, A.; Lorenc, A. A.; Petrenko, A. F.; Čapenko, V. P.) Automata theory. (Russian) (55 #10161)
- Jones, Neil D. (with Selman, Alan L.) Turing machines and the spectra of first-order formulas. (58 #5164)
- Kolodii, A. N. Two-sided nondeterministic automata. (Russian. English summary insert) (53 #2558)
- Korobkov, V. K. See Vasil'ev, Ju. L.; et al., (49 #12192)
- Koršunov, A. D. A survey of certain trends in automata theory. (Russian) (51 #5209)
- (Kozmidiadi, V. A.) See Complexity of computations and algorithms, (51 #2325)
- Kreczmar, Antoni Effectivity problems of algorithmic logic. (56 #7300)
- Kurmitis, A. See Jakubaitis, Ė. A.; et al., (55 #10161)
- Ladner, Richard E. Application of model theoretic games to discrete linear orders and finite automata. (58 #10387)
- Lallement, Gérard On the prime decomposition theorem for finite monoids. (45 #6962)
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- Letičev'skii, O. A. See Gluškov, V. M., (49 #10184)
- Lewis, F. D. On computational reducibility. (53 #4616)
- Linna, Matti On ω -words and ω -computations. (56 #1822)
- Lorenc, A. A. Synthesis of stable finite probabilistic automata. (Russian) (46 #1524)
- See also Jakubaitis, Ė. A.; et al., (55 #10161)
- Lynch, Nancy Ann (with Meyer, Albert R.; Fischer, Michael J.) Relativization of the theory of computational complexity. (53 #7742)
- (Maslov, A. N.) See Complexity of computations and algorithms, (51 #2325)
- Maurer, Hermann A. (with Salomaa, Arto; Wood, Derick) EOL forms. (56 #4255)
- Meersman, Robert A survey of techniques in applied computational complexity. (51 #9572)
- Meissner, Hansgeorg Über die Fortsetzbarkeit von sequentiellen Baum-Operatoren mit endlichem Gewicht. (English and Russian summaries) (56 #2698)
- Meyer, Albert R. See Lynch, Nancy Ann; et al., (53 #7742)
- Milgram, David L. See Rosenfeld, Azriel, (48 #8141)
- Moszner, Zenon Structure de l'automate plein, réduit et inversible. (47 #3585)
- Muzio, Jon C. Partial universal decision elements. (52 #37)
- Nabebin, A. A. Expressibility in restricted second order arithmetic. (Russian) (58 #16250)
- Nepomniščii, V. A. Conditions for the algorithmic completeness of systems of operations. (53 #12902)
- Orłowska, Ewa Threshold logic. (50 #12677)
- Theorem-proving systems. (48 #8208)
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- Perkowska, Eleonora Theorem on the normal form of a program. (Russian summary) (51 #56)
- Petrenko, A. F. See Jakubaitis, Ė. A.; et al., (55 #10161)
- (Petri, N. V.) See Complexity of computations and algorithms, (51 #2325)
- Pirická-Kelemenová, Alicia Directable automata and directly subdefinite events. (Czech summary) (52 #16915)
- Podlovčenko, R. I. R -schemes and equivalence relations between them. (Russian) (49 #11856)
- A complete system of similar transformations of R -schemes. (Russian) (49 #11857)
- Pour-El, Marian Boykan Abstract computability versus analog-generability. A survey. (49 #17)
- (Preston, A.) See Chinal, Jean P., (50 #9436)
- Rabin, Michael O. Decidability and definability in second-order theories. (54 #12512)
- Rasiowa, Helena On logical structure of programs. (Russian summary) (48 #60)
- Rayna, Gerhard Degrees of finite-state transformability. (57 #5515)
- Rose, Gene F. See Ginsburg, Seymour, (48 #12881)
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- Salwicki, Andrzej Applied algorithmic logic. (58 #13875)
- Sankoff, David Dictionary structure and probability measures. (47 #4499)
- Schnorr, Claus-Peter Über die Zufälligkeit und den Zufallsgrad von Folgen. (49 #1827)
- (with Stumpf, G.) A characterization of complexity sequences. (51 #12027)
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- Sols, Ignacio Logic, foundations, geometry and automata in the realm of topoi. (Spanish) (56 #15419)
- Sozańska-Bleń, Zofia The star measure of regular events. (Russian summary) (53 #10515)
- Staiger, Ludwig (with Wagner, Klaus) Automatentheoretische und automatenfreie Charakterisierungen topologischer Klassen regulärer Folgenmengen. (English and Russian summaries) (57 #11971)

- See also Wagner, Klaus, (58 #3752)
- Stankiewicz, Ewa (Z, Q)-computable sets and their sets of generators. (58 #33601)
- Starke, Peter H. Über die Minimierung von Automaten mit halbgeordnetem Ausgabealphabet. (Russian, English and French summaries) (48 #10719)
- Stumpf, G. See Schnorr, Claus-Peter, (51 #12027)
- (Sumner, A.) See Chinal, Jean P., (50 #9436)
- Suškov, Ju. A. A multifunctional logic element as a multistate system with bridges. (Russian) (57 #19147)
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- Thomas, Wolfgang A note on undecidable extensions of monadic second order successor arithmetic. (56 #110)
- Vallant, Leslie G. The equivalence problem for deterministic finite-turn pushdown automata. (52 #12412)
- Vasil'ev, Ju. L. (with Glagolev, V. V.; Korobkov, V. K.) Metric investigations in discrete analysis. (Russian) (49 #12192)
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- Wagner, Eric G. Bounded action machines. II. The basic structure of tapeless computers. (German summary) (47 #1328)
- Wagner, Klaus (with Staiger, Ludwig) Recursive ω -languages. (58 #3752)
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- Yeh, Raymond T. Some structural properties of generalized automata and algebras. (46 #5218)
- Żakowski, Wojciech On some properties of n -dimensional simple continuous machines. (Russian summary) (55 #4790)
- Zamov, N. K. The restriction of the complexity of terms in the resolution method. (Russian) (49 #4335)
- Zaznova, N. E. See Jakubaitis, E. A.; et al., (55 #10161)
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- Complexity of computations and algorithms ★Сложность вычислений и алгоритмов. (Russian) [Complexity of computations and algorithms] (51 #2325)
- Formal languages See Automatentheorie und formale Sprachen, (48 #7643)
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- Belsnes, Dag The immortality problem for non-erasing Turing machines. 49 #7123
- Case, John A note on degrees of self-describing Turing machines. 46 #8823
- Periodicity in generations of automata. 52 #10382
- Choueka, Yaacov A. Theories of automata on ω -tapes: a simplified approach. 49 #7124
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- Cook, Stephen A. A hierarchy for nondeterministic time complexity. 49 #2308
- Deimel, Lionel E., Jr. Remark on the computational power of a Turing machine variant. 50 #12680
- De Lillo, Nicholas J. A note on Turing machine regularity and primitive recursion. 57 #12191
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- Grigor'ev, D. Ju. Imbedding theorems for Turing machines of different dimensions and for Kolmogorov algorithms. (Russian) 58 #5113
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- Rado, R. Daniel** See Bing, R. H.; et al., (50 #9592)
- Rado, George F.** (with Taylor, Walter) Combinatory interpolation theorems. (52 #6580)
- Rado, Telis K.** A combinatorial property of p_λ . (53 #12948)
- Rado, Keith R.** Hindman's theorem and groups. (58 #21654)
- Rado, E. C.** Transversal theory. (54 #7270)
- Rado, Jan** See Ehrenfeucht, Andrzej, (50 #120)
- Rado, Takeo** See Lipski, Witold, Jr., (55 #12531)
- Rado, Jaroslav** (with Rödl, Vojtěch) A structural generalization of the Ramsey theorem. (54 #10027)
- Rado, Dag** Martin's axiom and medial functions. (54 #102)
- Rado, Phillip A.** On distinct representatives and mapping theorems. (47 #1623)
- Rado, Jeff** Patterns of indiscernibles. (51 #10099)
- Rado, A. G.** Letter to the editors: "The number of pairwise incomparable order types" (Sibirsk. Mat. Ž. 14 (1973), no. 1, 229-234). (Russian) (55 #5448)
- Rado, Karel** (with Solovay, Robert M.) On partitions into stationary sets. (55 #5443)
- See also Baumgartner, James E., (55 #2575)
- Rado, Richard** Anti-Ramsey theorems. (51 #10118)
- Rado, Y.** The ultrafilter principle implies that the projective limit of compact Hausdorff spaces is nonempty. (Russian summary) (54 #4991)
- Rado, Reinhard A.** (with Schnitzer, F. J.) Einige Sätze über gemeinsame Transversalen zweier Mengenfamilien. (53 #12962)
- Rado, Jan** See Koubek, Václav, (53 #5690)
- Rado, L. R.** Pure states and non-homogeneity. (54 #99)
- Rado, Vojtěch** See Nešetřil, Jaroslav, (54 #10027)
- Rado, Fred William** See Kim, Ki Hang, (58 #440)
- Rado, Norbert** On the density of families of sets. (46 #7017)
- See also Abbott, H. L.; et al., (45 #6633)
- Schmerl, James H.** Generalizing special Aronszajn trees. (52 #7905)
- A partition property characterizing cardinals hyperinaccessible of finite type. (49 #2386)
- On κ -like structures which embed stationary and closed unbounded subsets. (55 #7763)
- Schnitzer, F. J.** See Razen, Reinhard A., (53 #12962)
- Schwarz, Štefan** On the semigroup of binary relations on a finite set. (45 #5251)
- Shelah, Saharon** A combinatorial problem; stability and order for models and theories in infinitary languages. (46 #7018)
- Infinite abelian groups, Whitehead problem and some constructions. (50 #9582)
- A compactness theorem for singular cardinals, free algebras, Whitehead problem and transversals. (52 #10410)
- A two-cardinal theorem. (50 #9573)
- A two-cardinal theorem and a combinatorial theorem. (55 #7764)
- Whitehead groups may be not free, even assuming CH. I. (57 #9538)
- Jonsson algebras in successor cardinals. (58 #21572)
- See also Erdős, Paul; et al., (50 #9662) and Devlin, Keith J., (57 #9537)
- Shoenfield, Joseph R.** Martin's axiom. (Hungarian) (56 #2823)
- Shore, Richard A.** See Kleinberg, Eugene M., (48 #1927)
- Solovay, Robert M.** See Prikry, Karel, (55 #5443)
- Steyaert, Jean-Marc** See Flajolet, Philippe, (50 #1858)
- Szemerédi, Endre** See Erdős, Paul, (58 #10467)
- Tall, Franklin D.** Some set-theoretic consistency results in topology. (54 #4987)
- Taylor, Walter** See McNulty, George F., (52 #6580)
- Węglorz, B.** Some remarks on selectors. I. (48 #5861)
- Boolean-valued selectors for families of sets. (54 #94)
- Substructures of reduced powers. (54 #2454 (E 56 #117))
- Welsh, Paul J., Jr.** On the number of overlapping subsets of a set. (47 #8319)
- Zelinka, Bohdan** Embedding infinite trees into a cube of infinite dimension. (Czech summary) (50 #12775)
- Zwicker, W. S.** See Abramson, Fred G.; et al., (57 #116)

04A25 Axiom of choice and equivalent propositions (Zorn's Lemma, etc.) [See also 02K20.]

- Alas, O. T.** Une proposition équivalente au théorème de Zermelo. 50 #9594
- Bell, John** (with Fremlin, D. H.) A geometric form of the axiom of choice. 48 #5865
- van Benthem, J. F. A. K.** A set-theoretical equivalent of the prime ideal theorem for Boolean algebras. 52 #2891
- Bernays, Paul J.** Bemerkung über eine Ordnung der zahlentheoretischen Funktionen mittels eines additiven 0-1-Maßes für die Mengen natürlicher Zahlen. 52 #5429
- Zu den Maximalprinzipien der Mengenlehre. 51 #2923
- Bokštein, M. F.** On the proof of Zermelo's theorem and Zorn's lemma. (Russian) 56 #11803
- Burgess, John P.** Equivalences generated by families of Borel sets. 57 #16084
- Cirulis, J.** The set generated by the iteration of an expanding function. (Russian. Latvian and English summaries) 50 #117 (E 55 #7780)
- Fleischer, Isidore** Das Zornsche Lemma für Klassen. 47 #8313
- Fremlin, D. H.** See Bell, John, 48 #5865
- Harper, Judith M.** (with Rubin, Jean E.) Variations of Zorn's lemma, principles of cofinality, and Hausdorff's maximal principle. I. Set forms. 56 #5300a
- (with Rubin, Jean E.) Variations of Zorn's lemma, principles of cofinality, and Hausdorff's maximal principle. II. Class forms. 56 #5300b
- Heise, Werner** Das Lemma von Zorn. Eine vergleichende Untersuchung geometrischer, algebraischer und topologischer Hüllensysteme. 51 #7881
- Hickman, John L.** On the set of finite subsets of a set. 52 #94
- General-well-ordered sets. 52 #13393
- Howard, Paul E.** (with Rubin, Herman; Rubin, Jean E.) The relationship between two weak forms of the axiom of choice. 48 #1931
- Jech, Thomas J.** ★The axiom of choice. 53 #139
- Kertész, Andor** Transfinite Methoden in der Algebra. (Russian summary) 53 #140
- ★Einführung in die transfinite Algebra. 51 #5320
- Lolli, Gabriele** On Ramsey's theorem and the axiom of choice. 58 #10463
- Meisters, Gary H.** Zermelo's fixed point theorem in partially ordered sets and transfinite existence principles. (Spanish) 51 #171
- Palladino, Dario** L'assioma di scelta. 55 #12528
- Rav, Y.** The ultrafilter principle implies that the projective limit of compact Hausdorff spaces is nonempty. (Russian summary) 54 #4991
- Rubin, Herman** See Howard, Paul E.; et al., 48 #1931
- Rubin, Jean E.** See Howard, Paul E.; et al., 48 #1931; Harper, Judith M., 56 #5300a and Harper, Judith M., 56 #5300b
- Wiśniewski, K.** On functions without fixed points. 48 #8243

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- Alas, O. T.** Topological groups and the generalized continuum hypothesis. (45 #4964)
- Bell, John** (with Fremlin, D. H.) The maximal ideal theorem for lattices of sets. (46 #3307)
- Bombal Górdón, Fernando** See Rodriguez-Salinas, Baltasar, (49 #3812)
- Bonnet, Robert** Théorèmes de partitions, axiome de détermination et théorie des jeux. (52 #7909)
- Dawson, John W., Jr.** (with Howard, Paul E.) Factorials of infinite cardinals. (55 #7779)
- Ebbinghaus, Heinz-Dieter** Axiomatizing set theory. (58 #230)
- Franklin, Stanley P.** (with Thomas, Barbara V. Smith) Another topological equivalent of the axiom of choice. (45 #3195)
- Fremlin, D. H.** See Bell, John, (46 #3307)
- Hagendorf, Jean Guillaume** Impartibilité et algébricité des relations. (49 #7142)
- Halpern, J. D.** On a question of Tarski and a maximal theorem of Kurepa. (46 #7027 (E 47 #1610))
- Henle, J. M.** Some consequences of an infinite-exponent partition relation. (58 #10461)

- Hickman, John L. On a cardinal equation in set theory. (46 #5132)
- Howard, Paul E. See Dawson, John W., Jr., (55 #7779)
- Kasahara, Shouro Remarks on some fixed point theorems. (54 #13888)
- Kleinberg, Eugene M. (with Seiferas, Joel I.) Infinite exponent partition relations and well-ordered choice. (49 #4782)
- AD $^+$ "the \aleph_α are Jonsson cardinals and \aleph_ω is a Rowbottom cardinal". (57 #9550)
- Kurepa, Đuro Factorials and the general continuum hypothesis. (50 #9595)
- Lotli, Gabriele Principio di equilibrio e assioma di scelta. (English summary) (46 #7030)
- Penk, Anna Michaelides Two forms of the axiom of choice for an elementary topos. (51 #5698)
- Pincus, David On the independence of the Kinna-Wagner principle. (51 #5302)
- Plastria, Frank Two loose results in general topology. (48 #12446)
- Pouzet, Maurice Sur des conjectures de R. Fraïssé. (49 #7191)
- Sur les prémeilleurdordres. (English summary) (49 #7192)
- Prikry, Karel Determinateness and partitions. (56 #11802)
- Rodríguez-Salinas, Baltasar (with Bombal Górdon, Fernando) The Tychonoff product theorem for compact Hausdorff spaces does not imply the axiom of choice: a new proof. Equivalent propositions. (49 #3812)
- Rubin, Arthur L. (with Rubin, Jean E.) The cardinality of the set of Dedekind finite cardinals in Fraenkel-Mostowski models. (51 #5303)
- Rubin, Jean E. See Rubin, Arthur L., (51 #5303)
- Seiferas, Joel I. See Kleinberg, Eugene M., (49 #4782)
- Steffens, Karsten ★Injektive Auswahlfunktionen. (53 #12959)
- Thomas, Barbara V. Smith See Franklin, Stanley P., (45 #3195)
- Truss, John Convex sets of cardinals. (50 #6843)
- Models of set theory containing many perfect sets. (51 #5304)
- Cardinals in the Halpern-Levy model. (53 #5301)
- Wesley, Eugene Borel preference orders in markets with a continuum of traders. (55 #11955)
- Zaharova, E. Ju. A remark on the maximal order of a simple basis in P_K . (Russian) (45 #3172)

04A30 Continuum hypothesis, generalized continuum hypothesis [See also 02K25.]

- Galvin, Fred (with Hajnal, András) Inequalities for cardinal powers. 51 #12535
- Hajnal, András See Galvin, Fred, 51 #12535
- Kurepa, Đuro Factorials and the general continuum hypothesis. 50 #9595
- Martin, Donald A. Hilbert's first problem: the continuum hypothesis. 55 #7790
- Normann, Dag Martin's axiom and medial functions. 54 #102
- Truss, John Dualisation of a result of Specker's. 47 #43

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- Baumgartner, James E. (with Prikry, Karel) Singular cardinals and the generalized continuum hypothesis. (55 #2575)
- Bing, R. H. (with Bledsoe, W. W.; Mauldin, R. Daniel) Sets generated by rectangles. (50 #9592)
- Bledsoe, W. W. See Bing, R. H.; et al., (50 #9592)
- Carpintero Organero, Pablo On topology, Boolean algebras and cardinal numbers. (Spanish) (57 #17582)
- Ceder, Jack The plane is the union of \aleph_0 disjoint connected curves. (52 #15466)
- (Csirmáz, László) See Shoenfield, Joseph R., (56 #2823)
- Davies, Roy O. Representation of functions of two variables as sums of rectangular functions. I. (49 #10834)
- Devlin, Keith J. (with Johnsråten, Håvard) ★The Souslin problem. (52 #5416)
- Frankiewicz, Ryszard On the inhomogeneity of the set of $P(m)$ -points of ω^* . (58 #12924)
- Friedman, Joel I. The generalized continuum hypothesis is equivalent to the generalized maximization principle. (46 #1592)
- Hajnal, András (with Juhász, István) On first countable non-Lindelöf S -spaces. (54 #6062)
- Johnsråten, Håvard See Devlin, Keith J., (52 #5416)
- Juhász, István See Hajnal, András, (54 #6062)
- Krom, Melven R. Cartesian products of metric Baire spaces. (48 #12457)
- Kurepa, Đuro On trees or ramifications. (52 #5424)
- Lake, John A note on the function $\pi(\alpha)$. (Russian summary) (52 #110)
- Lévy, Azriel (with Solovay, Robert M.) On the decomposition of sets of reals to Borel sets. (47 #38)
- Malyhin, V. I. (with Šapirovskii, B. È.) Martin's axiom, and properties of topological spaces. (Russian) (49 #7985)
- Mauldin, R. Daniel See Bing, R. H.; et al., (50 #9592)
- Prikry, Karel See Baumgartner, James E., (55 #2575)
- Šapirovskii, B. È. See Malyhin, V. I., (49 #7985)
- Shoenfield, Joseph R. Martin's axiom. (Hungarian) (56 #2823)
- Solovay, Robert M. See Lévy, Azriel, (47 #38)
- Truss, John Sets having calibre \aleph_1 . (57 #16073)

04A99 Miscellaneous topics

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- Cools, M. See Kaufmann, A.; et al., 58 #27500
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- Dubois, T. See Kaufmann, A.; et al., 58 #27500
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- Hajnal, Miklos See Kóczy, László T., 56 #8370
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- Properties of fuzzy matrices and their applications to hierarchical structures. 58 #33611
- Kaufmann, A. ★Introduction à la théorie des sous-ensembles flous à l'usage des ingénieurs (fuzzy sets theory). 58 #5245a
- ★Introduction to the theory of fuzzy subsets. 58 #5245b
- (with Dubois, T.; Cools, M.) ★Exercices avec solutions sur la théorie des sous-ensembles flous. 58 #27500
- ★Introduction à la théorie des sous-ensembles flous à l'usage des ingénieurs (fuzzy sets theory). 58 #5245c
- Kóczy, László T. (with Hajnal, Miklos) A new fuzzy calculus and its application to pattern recognition technique. 56 #8370
- Leenders, J. H. Some remarks on an article by Raymond T. Yeh and S. Y. Bang dealing with fuzzy relations: "Fuzzy relations, fuzzy graphs, and their applications to clustering analysis" (Fuzzy sets and their applications to cognitive and decision processes (Proc. U.S.-Japan Sem., Univ. Calif., Berkeley, Calif., 1974), pp. 125-141). 58 #27501
- Loo, S. G. Fuzzy relations in the social and behavioral sciences. 57 #5761
- Mizumoto, Masaharu (with Tanaka, Kohkichi) The four operations of arithmetic fuzzy numbers. 57 #16091
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- A note on the extension principle for fuzzy sets. 58 #243
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- Zadeh, L. A. Fuzzy sets as a basis for a theory of possibility. 58 #244
- See also Kaufmann, A., 58 #5245a; Kaufmann, A., 58 #5245b and Kaufmann, A., 58 #5245c

Secondary classifications:

- Benlahcen, Driss (with Hirsch, Gérard; Lamotte, Michel) Codage et minimisation des fonctions floues dans une algèbre floue. (English summary) (58 #4655)
- Butnariu, Dan Fuzzy games: a description of the concept. (58 #20540)
- Černý, Martin (with Glückaufová, Dagmar) Application of fuzzy sets in multicriteria decision problems. (Czech. English summary) (58 #15260)
- Giles, Robin Łukasiewicz logic and fuzzy set theory. (58 #10297)
- Glückaufová, Dagmar See Černý, Martin, (58 #15260)
- Hirsch, Gérard See Benlahcen, Driss; et al., (58 #4655)
- Jahn, K.-U. Min-Max-Intervallrechnung. (58 #19089)
- Kandel, Abraham Fuzzy statistics and forecast evaluation. (57 #11654)
- Kaufmann, A. ★Introduction à la théorie des sous-ensembles flous à l'usage des ingénieurs (fuzzy sets theory). (58 #25056a)
- ★Introduction à la théorie des sous-ensembles flous à l'usage des ingénieurs (fuzzy sets theory). (58 #25056b)
- ★Introduction à la théorie des sous-ensembles flous à l'usage des ingénieurs (fuzzy sets theory). (58 #25056c)
- Kóczy, László T. On some basic theoretical problems of fuzzy mathematics. (57 #9370)
- Lamotte, Michel See Benlahcen, Driss; et al., (58 #4655)
- Longo, Giuseppe "Fuzzy sets" e la nozione d'incertezza. I. (58 #26538)
- Negoitǎ, Constantin Virgil (with Ralescu, Dan A.) ★Mulțimi vagi și aplicații (Romanian) [Fuzzy sets and their applications] (55 #7589)
- (with Ralescu, Dan A.) ★Applications of fuzzy sets to systems analysis. (58 #9442a)
- (with Ralescu, Dan A.) ★Applications of fuzzy sets to systems analysis. (58 #9442b)
- Ralescu, Dan A. See Negoitǎ, Constantin Virgil, (55 #7589); Negoitǎ, Constantin Virgil, (58 #9442a) and Negoitǎ, Constantin Virgil, (58 #9442b)
- Ristea, Tudor G. Distance in the set of predicates. (Romanian. French summary) (58 #16450)
- Skala, Heinz J. On many-valued logics, fuzzy sets, fuzzy logics and their applications. (58 #5040)

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- (Alspach, Brian R.) See Problems: Combinatorics, 52 #5430
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- Huba, Wolfgang Ein maximaler lokaler Algorithmus für Klassen unverkürzbarer Überdeckungen. (58 #5100)
- Matona, Gyula ★Combinatorial search problems. (50 #15896)
- Combinatorial search problems. (51 #4976)
- Muth, Donald E. ★Mariages stables et leurs relations avec d'autres problèmes combinatoires. (58 #8470)
- Mirkin, B. G. (with Černý, L. B.) Measurement of the distance between distinct partitions of a finite set of objects. (46 #67)

05-01 Elementary exposition (collegiate level)

- Anderson, Ian ★A first course in combinatorial mathematics. 49 #2402
- Berman, Gerald (with Fryer, K. D.) ★Introduction to combinatorics. 50 #6861
- Bertoni, Alberto (with Torelli, Mauro) ★Elementi di matematica combinatoria. 58 #245
- Braz, Jany Cajetan Disjunkte Teilmengensysteme einer endlichen Menge. 54 #12531
- Brunaldi, Richard A. ★Introductory combinatorics. 58 #21631
- Cormier, Romae J. (with Eggleton, Roger B.) Counting by correspondence. 54 #103
- Embowski, Peter ★Kombinatorik. 52 #2892
- Eggleton, Roger B. *See* Cormier, Romae J., 54 #103
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- Fryer, K. D. *See* Berman, Gerald, 50 #6861
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- of graphs. 58 #21632
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- Kaufmann, A. ★Des points et des flèches... la théorie des graphes. 50 #6862
- ★Einführung in die Graphentheorie. 50 #6863
- Kolata, Gina Bari A step forward toward the creation of a unified theory in combinatorics. (Bulgarian) (Not reviewed)
- Korfhage, Robert R. ★Discrete computational structures. 51 #173
- Lüneburg, Heinz ★Kombinatorik. 49 #49
- (Minich, Werner) *See* Flachsmeyer, Jürgen, 56 #15431
- (Odvárko, Oldřich) *See* Vilenkin, N. Ja., 57 #2921
- Pickert, Günter Plans de blocs. 52 #13394
- Rybníkov, K. A. ★Введение в комбинаторный анализ. (Russian) [Introduction to combinatorial analysis] 50 #118
- Savelev, L. Ja. ★Комбинаторика и вероятность. (Russian) [Combinatorics and probability] 52 #13395
- Scheid, Harald Algebraische Aspekte in der elementaren Kombinatorik. 57 #5763
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- Andrásfai, Béla ★Introductory graph theory. (58 #27572)
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- Kopylova, A. N. (with Petrenjuk, A. Ja.) Combinatorial mathematics at Moscow State University. (Russian) **57** #125
- Lloyd, E. Keith Facts and myths in the history of graph theory. **52** #13398
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- Hedayat, A. Hadamard matrices and their applications. (**58** #27561)
- Homenko, M. P. (with Vivrot, T. M.) Mutual interrelationship of the ideas of matrix theory and graph theory in their historical development. I. (Russian) (**58** #27071)
- Knobloch, Eberhard ★Die mathematischen Studien von G. W. Leibniz zur Kombinatorik. (**58** #26899)
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The mathematical studies of G. W. Leibniz on combinatorics. (German summary) (**57** #2836)
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- (Leibniz, Gottfried Wilhelm) See Knobloch, Eberhard, (**57** #2836) and Knobloch, Eberhard, (**58** #26899)
- Lloyd, E. Keith See Biggs, Norman L.; et al., (**56** #2771)
- Permjakov, P. P. Some applications of the method of generating functions in combinatorial analysis of the nineteenth century. (Russian) (**58** #27035)
- Takagi, Shigeo The history of the magic square. (Japanese) (**58** #21037)
- Vivrot, T. M. See Homenko, M. P., (**58** #27071)
- Wilson, Robin J. Edge-colorings of graphs—a survey. (**58** #10569)
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- Bammel, Stanley E. (with Rothstein, Jerome) The number of 9×9 Latin squares. **51** #7882
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- Specker, Ernst Algorithmische Kombinatorik mit Kleinrechnern. **57** #5767
- Spira, Philip M. A new algorithm for finding all shortest paths in a graph of positive arcs in average time $O(n^2 \log^2 n)$. **49** #50
- Tarjan, Robert Endre Depth-first search and linear graph algorithms. **46** #3313
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- Březina, Jaroslav The use of computers in the investigation of certain decompositions of a complete graph. (Slovak. English summary) (**48** #3806)
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- Dvořák, S. (with Kropáč, B.) Decomposition of the Gozinto's graph with the use of nesting store. (**52** #4698)
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- Timm, J.** On regular algebras. **58** #10674
- Traczyk, Tadeusz** On automorphisms in an algebra with a basis. (Russian summary) **46** #3419
- Trohimenko, V. S.** The algebras of multiplace partial transformations. (Russian) **51** #3033
Algebras of reverse multiplace functions. (Russian) **53** #2807
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Positional systems of multiplace functions. (Russian) **49** #10811
- Truöl, Klaus** ★Über die absolute Unabhängigkeit in einstelligen Algebren. **49** #4912
- Urastsev, D. D.** Categories of rigid commutative sheaves of algebras. (Russian) **58** #16469
- Urquhart, Alasdair** Free Heyting algebras. **50** #211
- Ursini, Aldo** Sui plurianelli. (English summary) **49** #192
- Valuée, I. I.** ★Образжения: алгебраические аспекты теории. (Russian) [Mappings: algebraic aspects of the theory] **57** #213
- Vancko, Robert M.** The class of algebras in which weak independence is equivalent to direct sums independence. **52** #3019
- Varecza, László** The set of ergodic groups of universal algebras. **56** #223
- Varlet, Jules C.** Remarks on fully invariant congruences. **58** #5469
- Vinárek, Jiří** See **Tichý, Tomáš**, **47** #3284
- Vraciu, Constantin** See **Georgescu, George**, **45** #6728
- Wenzelburger, Elfriede** (with Lin, Jeng Eng) Reduction of all three-term syzygies. **51** #12662
- Werner, Heinrich** Diagonal-products and affine completeness. **50** #2039
Which partition lattices are congruence lattices? **56** #224
See also **Ganter, Bernhard; et al.**, **47** #8400
- Wesołowski, Tadeusz** Automorphisms of the idempotent reducts of certain groups with exponent 2. (Polish. English summary) **57** #5878
- Whaley, T. P.** Multiplicity type and congruence relations in universal algebras. **46** #3421
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- Wilkie, Alex** A note on products of finite structures with an application to graphs. **54** #10111
- Wnuk, Barbara** On neglecting automorphisms of algebras. (Polish summary) **54** #10112
- Wojdyło, Bolesław** Remarks on lattices of congruence relations of quasi-algebras. **48** #5966
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- Wroński, Andrzej** See **Graczyńska, Ewa**, **57** #5870a and **Graczyńska, Ewa**, **57** #5870b
- Wuytack, F.** Free and absolutely free structures. (Dutch. English summary) **49** #193
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- Pierce, Keith R. Amalgamated sums of abelian l -groups. (55 #2702)
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- Roszak, Krystyna Proper isometries of a regular n -gon as the automorphism group of universal algebra. (Polish. English summary) (57 #6158)
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- Szendrei, Ágnes On affine modules. (57 #12606)
- Szilágyi, Miklós On ordered Ω -groups. (49 #2489)
- See also Maurer, Iulius Gy., (48 #6751)
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- Taylor, Walter Baker's finite basis theorem. (57 #16166)
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10-XX NUMBER THEORY [Excluding 10Axx and 10Mxx, this classification scheme does not distinguish work in the rational number fields from that in other algebraic number fields.]

- (LeVeque, William J.) See Reviews in number theory, 50 #2040; Reviews in number theory, 50 #2041; Reviews in number theory, 50 #2042; Reviews in number theory, 50 #2043; Reviews in number theory, 50 #2044 and Reviews in number theory, 50 #2045

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- Number theory See Reviews in number theory, 50 #2040; Reviews in number theory, 50 #2041; Reviews in number theory, 50 #2042; Reviews in number theory, 50 #2043; Reviews in number theory, 50 #2044 and Reviews in number theory, 50 #2045
- Reviews in number theory ★Reviews in number theory. Vol. 1. 50 #2040
- ★Reviews in number theory. Vol. 2. 50 #2041
- ★Reviews in number theory. Vol. 3. 50 #2042
- ★Reviews in number theory. Vol. 4. 50 #2043
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- Borevič, Z. I. (with Šafarevič, I. R.) ★Теория чисел. (Russian) [The theory of numbers] (50 #4526)
- (Freiman, G. A.) See Postnikova, L. P., (50 #10597)
- Postnikova, L. P. ★Тауберова теория с приложениями к аналитической теории

чисел. (Russian) [Tauberian theory with applications to the analytic theory of numbers] **50** #10597

Šafarevič, I. R. *See* Borevič, Z. I., **(50** #4526)

10–01 Elementary exposition (collegiate level)

Adams, William W. (with Goldstein, Larry Joel) ★Introduction to number theory. **57** #16172

Agnew, Jeanne ★Explorations in number theory. **56** #2900

Aligner, Alexander ★Zahlentheorie. **56** #2901

Andrews, George E. ★Number theory. **46** #8943

Apostol, Tom M. ★Introduction to analytic number theory. **55** #7892

(Barsky, Daniel) *See* Parent, D. P., **58** #5471

Berry, Daniel M. (with Yavne, Moshe) The Conway stones: what the original Hebrew may have been. **54** #2566

(Bertrand, Françoise) *See* Parent, D. P., **58** #5471

Bicknell-Johnson, Marjorie *See* Hoggatt, Verner E., Jr., **54** #216 (EA **54**)

Borodin, A. I. *See* Kazaček, N. A.; et al., **53** #13083

Bosteels, G. Euler—Möbius. (Dutch) **54** #12608

Castaldo, Pietro Alcuni criteri particolari di divisibilità. **55** #2712

(Christol, Gilles) *See* Parent, D. P., **58** #5471

Cucurezeanu, Ioa ★Probleme de aritmetică și teoria numerelor. (Romanian) [Problems of arithmetic and number theory]. **58** #5470

(Decomps, Annette) *See* Parent, D. P., **58** #5471

(Delange, Hubert) *See* Parent, D. P., **58** #5471

Depman, I. Ja. Bertrand's hypothesis. (Russian) **56** #11876

(Deshouillers, Jean-Marc) *See* Parent, D. P., **58** #5471

(de Fermat, Pierre) *See* Postnikov, M. M., **58** #21906

(Galván Anaya, Federico) *See* Jones, Burton W., **46** #5219

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Goldstein, Larry Joel ★Analytic number theory. **58** #16471

See also Adams, William W., **57** #16172

Good, Irving John What is the most amazing approximate integer in the universe? **47** #8406

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Ireland, Kenneth (with Rosen, Michael I.) ★Elements of number theory. Including an introduction to equations over finite fields. **58** #27701

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(Laméche-Gérardin, Khyra) *See* Parent, D. P., **58** #5471

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(Łoś, Jerzy) *See* Sierpiński, Wacław, **50** #9756

(Mehrf, Patrick) *See* Sierpiński, Wacław, **52** #241

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- Structural theory of set addition See Number-theoretic studies in the Markov spectrum and in the structural theory of set addition, 50 #12874
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- Studies in number theory (LOMI) ★Исследования по теории чисел. 3. (Russian) [Studies in number theory. 3] 51 #8010
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- Zahlentheorie See Zahlentheorie, 50 #12875
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- (Amice, Yvette) See Groupe d'Étude: Analyse Ultramétrique, (56 #13)
- (Bondarenko, V. M.) See Quadratic forms and polyquivers, (57 #16339)
- (Hasse, Helmut) See Collection: Hasse, Helmut, (48 #212)
- (Horváth, John) See Several complex variables, (45 #585)
- (Lehmer, Derrick Henry) See Collection: Lehmer, Derrick Henry, (50 #1791)
- (Mann, Henry B.) See Number theory and algebra, (56 #11675)
- (Nikol'skii, S. M.) See Number theory, mathematical analysis and their applications, (58 #20943)
- (Robba, Philippe) See Groupe d'Étude: Analyse Ultramétrique, (56 #13)
- (Ross, Arnold E.) See Number theory and algebra, (56 #11675)
- (Tausky, Olga) See Number theory and algebra, (56 #11675)
- (Urazbaev, B. M.) See Collection: Reports of the Algebra Seminar of the Department of Algebra and Number Theory, Kazah State Univ., (54 #10187)
- (Vinogradov, I. M.) See Number theory, mathematical analysis and their applications, (58 #20943)
- (Zaremba, Stanislaw K.) See Applications of number theory to numerical analysis, (48 #12771)
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- Hasse, Helmut See Collection: Hasse, Helmut, (48 #212)
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- Vinogradov, I. M. See Number theory, mathematical analysis and their applications, (58 #20943)
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- Collection:
- Hasse, Helmut ★(Collection of articles dedicated to Helmut Hasse on his seventy-fifth birthday). (48 #212)
- Lehmer, Derrick Henry ★(Collection of articles dedicated to Derrick Henry Lehmer on the occasion of his seventieth birthday). (50 #1791)
- Reports of the Algebra Seminar of the Department of Algebra and Number Theory, Kazah State Univ. ★Сборник материалов алгебраического семинара кафедры алгебры и теории чисел. Вып. 2. (Russian) [Collection of Reports of the Algebra Seminar of the Department of Algebra and Number Theory. No. 2] (54 #10187)
- Conference:
- Several Complex Variables See Several complex variables, (45 #585)
- Utilisation des Calculateurs en Mathématiques Pures See Utilisation des calculateurs en mathématiques pures, (57 #15821)
- Contributions à la théorie des séries trigonométriques et à la théorie des nombres ★Contributions à la théorie des séries trigonométriques et à la théorie des nombres, (52 #14799)
- Groupe d'Étude:
- Analyse Ultramétrique ★Groupe d'Étude d'Analyse Ultramétrique. 3e année: 1975/76. (56 #13)
- Journées:
- Analyse Ultramétrique See Groupe d'Étude: Analyse Ultramétrique, (56 #13)
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- Mathematical analysis See Number theory, mathematical analysis and their applications, (58 #20943)
- Microlocal analysis See Research on microlocal analysis, (56 #13245)
- Number theory See Applications of number theory to numerical analysis, (48 #12771) and Contributions à la théorie des séries trigonométriques et à la théorie des nombres, (52 #14799)
- Number theory and algebra ★Number theory and algebra. (56 #11675)
- Number theory, mathematical analysis and their applications ★Теория чисел, математический анализ и их приложения. (Russian) [Number theory, mathematical analysis and their applications] (58 #20943)
- Numerical analysis See Applications of number theory to numerical analysis, (48 #12771)
- Polyquivers See Quadratic forms and polyquivers, (57 #16339)
- Quadratic forms and polyquivers ★Квадратичные формы и поликочланы. (Russian) [Quadratic forms and polyquivers] (57 #16339)
- Research on microlocal analysis ★Research on a microlocal analysis. (56 #13245)
- Seminar:
- Algebra See Collection: Reports of the Algebra Seminar of the Department of Algebra and Number Theory, Kazah State Univ., (54 #10187)
- Several complex variables ★Several complex variables. II. Maryland, 1970. (45 #585)
- Symposium:
- Applications of Number Theory to Numerical Analysis See Applications of number theory to numerical analysis, (48 #12771)
- Research on Microlocal Analysis See Research on microlocal analysis, (56 #13245)
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- Utilisation des calculateurs en mathématiques pures ★Utilisation des calculateurs en mathématiques pures. (57 #15821)

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- Alladi, Krishnaswami ★Contributions to number theory. 55 #5506
- (Brousseau, Alfred) See Tables: Fibonacci and related number-theoretic tables, 50 #12876 and Number theory tables, 50 #12877
- (Julio, J.) See Vorobiov, M. M., 52 #3025
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- ★Признаки делимости. (Russian) [Criteria for divisibility] 50 #12879
- ★Criterios de divisibilidad. (Spanish) [Criteria for divisibility] 52 #3025
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- Tables:
- Fibonacci and related number-theoretic tables ★Fibonacci and related number-theoretic tables. 50 #12876
- Number theory See Number theory tables, 50 #12877
- Secondary classifications:
- Apostol, Tom M. ★Introduction to analytic number theory. (55 #7892)
- Freiman, G. A. ★Начала структурной теории сложности множеств. (Russian) [Elements of a structural theory of set addition] (50 #12943)
- ★Foundations of a structural theory of set addition. (50 #12944)
- Volkenborn, Arnt Ein p -adisches Integral und seine Anwendungen. II. (English summary) (48 #11064)

10A05 Multiplicative structure of the integers (GCD, etc.)

- Artuhov, M. M. On the problem of odd h -fold perfect numbers. **47** #6595
- Bergum, Gerald E. Distribution of primes in $Z(\omega)$. **47** #6596
- de Boor, Carl (with Schoenberg, Isaac Jacob) Unique prime factorization and lattice points. **49** #4914
- Boyle, R. D. On a problem of R. L. Graham. **57** #5880
- Brown, John L., Jr. (with Duncan, R. L.) The least remainder algorithm. **45** #155
- Castaldo, Pietro Caratteristiche della struttura dell'insieme dei numeri razionali positivi. **48** #5969
- Divisibilità di somme di potenze di uguale base per un numero primo con la base. **58** #27708
- Duncan, R. L. See Brown, John L., Jr., **45** #155
- Eggleton, Roger B. Maximizing least common multiples: a report. **51** #10199
- (with Erdős, Paul; Selfridge, J. L.) The powers that be. **58** #5476
- Erdős, Paul (with Straus, Ernst G.) On products of consecutive integers. **57** #3051
- See also Eggleton, Roger B.; et al., **58** #5476
- Frankel, Miloš (with Salát, Tibor) Remarks on the fundamental theorem of arithmetic. **48** #2036
- Gupta, Hansraj (with Srinivasan, Seshadri) Cycles of quadratic congruences. **47** #117
- Jarris, V. C. On Daykin's algorithm for finding the g.c.d. **50** #214
- Herzog, Marcel (with Schönheim, J.) On certain sets of divisors of a number. **45** #6782
- Hillman, Abraham P. (with Hoggatt, Verner E., Jr.) A proof of Gould's Pascal hexagon conjecture. **47** #3287
- Hitotumatu, Sin (with Sato, Daihachiro) Star of David theorem. I. **51** #3036
- (with Sato, Daihachiro) Simple proof that a p -adic Pascal's triangle is 120° rotatable. **53** #13085
- Hoggatt, Verner E., Jr. See Hillman, Abraham P., **47** #3287
- Ivanov, V. N. (with Kočkin, N. N.) Direct product of matrices and the multiplication of binary numbers. (Russian) **58** #27709
- Karst, Edgar (with Root, S. C.) Teilfolgen von Primzahlen in arithmetischer Progression. **53** #13086a
- See also Root, S. C., **53** #13086b
- Kočkin, N. N. See Ivanov, V. N., **58** #27709
- Kondrev, N. M. A certain generalization of the geometric series. (Bulgarian. Russian and French summaries) **53** #7915
- Kostyrko, Pavel On some classes of sets of natural numbers. **51** #12663
- LeVan, Marijo O. Notes on translated geometric progressions. II, III, IV. **52** #5533
- Magnotte, Maurice Correction to "A characterization of integers" (Amer. Math. Monthly **84** (1977), no. 4, 278-281). **57** #5881
- Mittas, Günter Ein Beweis der Eindeutigkeit der Primzahlzerlegung. **46** #5220
- Mathanson, Melvyn B. Products of sums of powers. **50** #12880
- Maymann, J. E. Groups and fields in Z_p . **51** #10200
- Nédei, László Einige Teilbarkeitskriterien. **52** #243
- Root, S. C. (with Karst, Edgar) Mehr Teilfolgen von Primzahlen in arithmetischer Progression. **53** #13086b
- See also Karst, Edgar, **53** #13086a
- Polkiewicz, Andrzej Un problème sur les nombres pseudo-premiers. **46** #1689
- Salát, Tibor See Frankel, Miloš, **48** #2036
- Sami, Zoran On the M -hypothesis of Dj. Kurepa. **50** #6993
- Sárközy, András On products of integers. **51** #10201
- Sato, Daihachiro See Hitotumatu, Sin, **51** #3036 and Hitotumatu, Sin, **53** #13085
- Satyannarayana Murty, P. V. On the zero divisors of Z_p . **51** #12664
- On the product of four consecutive integers. **52** #3026
- Schaefer, Paul An algorithm for finding the G.C.D. of a finite set of integers. **51** #317
- Schoenberg, Isaac Jacob See de Boor, Carl, **49** #4914
- Schönheim, J. See Herzog, Marcel, **45** #6782
- Selfridge, J. L. See Eggleton, Roger B.; et al., **58** #5476
- Sit, William Yu (with Siu, Man Keung) On the subsemigroups of N . **51** #12665
- Siu, Man Keung See Sit, William Yu, **51** #12665
- Srinivasan, Seshadri See Gupta, Hansraj, **47** #117
- Stanković, Jovica Über einige Relationen zwischen Fakultäten und den linken Fakultäten. **50** #6994
- Straus, Ernst G. On the greatest common divisor of some binomial coefficients. **46** #8944
- See also Erdős, Paul, **57** #3051
- Székely, William Yslas Some remarks on a number theoretic problem of Graham. **55** #2719
- Vebb, William A. On a theorem of Rav concerning Egyptian fractions. **51** #12666
- Walavigi, C. C. A note on self producing sequences. **54** #5092

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- Iasgras, Vasile V. Applications of graph theory to number theory. (Romanian. French summary) (51 #279)
- Schönheim, J. See Erdős, Paul, (47 #1620)
- Selfridge, J. L. Notes on binomial coefficients. IV. Proof of a conjecture of Gould on the GCD's of two triples of binomial coefficients. (49 #4792)
- Sorinaga, Masataka Numerical investigation of some equations involving Euler's ϕ -function. (58 #10682)

10A10 Congruences, primitive roots

- Bercrombie, Alexander G. Letter to the editor. **51** #3037
- Bonson, James Number of solutions of the congruence $x^m \equiv r \pmod{n}$. **48** #2037
- Brazi, Benjamin A generalization of the Chinese remainder theorem. **58** #471
- Bergum, Gerald E. (with Jordan, James H.) The distribution of quadratic residues in fields of order p^2 . **48** #3848
- Berndt, Bruce C. (with Evans, Ronald J.) Least positive residues and the law of

quadratic reciprocity. **50** #12881

- Periodic Bernoulli numbers, summation formulas and applications. **52** #10560
- Billik, Martin (with Edgar, Hugh M.) Covering sets of congruences. **48** #5970
- Bottomoff, Gerald A. Proof of the Littlewood conjecture for infinitely many pairs. **58** #16477
- Bovey, John $\Gamma^*(8)$. **50** #215
- Brenner, Joel Zolotarev's theorem on the Legendre symbol. **48** #2038
- Brillhart, John D. (with Tonascia, J.; Weinberger, Peter J.) On the Fermat quotient. **47** #3288
- Buell, Duncan A. (with Williams, Kenneth S.) Maximal residue difference sets modulo p . **58** #16478
- Burde, Klaus Über Anzahlformeln modulo p . **57** #3052
- Burshtein, Nechemia On distinct unit fractions whose sum equals 1. **47** #3290
- On natural exactly covering systems of congruences having moduli occurring at most twice. **54** #217
- Buza, M. K. Fractions with the denominator B^k that are represented in a system of residue classes. (Russian) **45** #3303b
- (with Kravcov, V. K.; Posnov, N. N.) Sign determination and redundancy for fractions of the form A/B^k in a residue class number system. (Russian) **45** #3303d
- See also Posnov, N. N.; et al., **45** #3303e
- Castaldo, Pietro Insieme congrui ad uno o più insiemi dati. (Not reviewed)
- Choi, S. L. G. Covering the set of integers by congruence classes of distinct moduli. **45** #6744
- Connolly, Dennis Integer difference covers which are not k -sum covers, for $k=6, 7$. **47** #3289
- Cordes, Craig M. Permutations mod m in the form x^n . **57** #217
- Dénes, József Some applications of group theory to other branches of mathematics. **57** #5882
- Dewar, James On finite and infinite covering sets. **47** #6597
- Dodson, M. M. A note on homogeneous additive equations over p -adic fields. **52** #3027
- Edgar, Hugh M. See Billik, Martin, **48** #5970
- Erdős, Paul (with Szemerédi, Endre) On a problem of Graham. **54** #12609
- Evans, Ronald J. On N consecutive integers in an arithmetic progression. **47** #8408
- See also Berndt, Bruce C., **50** #12881
- Fraenkel, Aviezri S. A characterization of exactly covering congruences. **47** #4906
- Frei-Imfeld, Günther Über Kongruenzen höherer Operationen. **55** #2720
- Friedlander, John B. On exact coverings of the integers. **47** #3291
- A note on primitive roots in finite fields. **47** #4907
- (with Rosen, Kenneth H.) Refinements of a congruence of Gauss. **56** #8472
- Gerrish, F. Sledge-hammer cracks peanut. **58** #10683
- Gubareni, N. M. See Sin'kov, M. V.; et al., **58** #16480
- Gusev, G. I. A generalized Euler congruence. (Russian) **53** #5442
- Hall, R. R. (with Wild, K.) A problem on integer sequences. **52** #13600
- Hansen, Rodney T. Modular palindromes. **45** #6746
- Hausman, Miriam Primitive roots satisfying a co-prime condition. **54** #10114
- Heed, Joseph J. (with Kelly, Lucille) An interesting sequence of Fibonacci sequence generators. **52** #13601
- Heidrich, Arnošt J. J. On finite differences, permutations, and quadratic residues. **56** #11879
- Hewitt, Edwin Certain congruences that hold identically. **55** #7896
- Huang, Chih P'ing See Shiu, Jau Shyong, **58** #5477
- Hudson, Richard H. Generalizations of a classical theorem in number theory. **53** #7916
- Ivić, Aleksandar On an arithmetical semigroup connected with quadratic residues. **55** #2721
- Jackson, T. H. Asymmetric sets of residues. **47** #4908
- (with Williamson, J. H.; Woodall, D. R.) Difference-covers that are not k -sum-covers. I. **46** #1690
- Jager, H. Some remarks on primitive residue class characters. **48** #2039
- Johnson, Wells On the p -divisibility of the Fermat quotients. **57** #3053
- Jordan, James H. See Bergum, Gerald E., **48** #3848
- Judina, G. E. See Litver, E. L., **49** #4915
- Kaya, E. A matrix representation of the quadratic residue and quadratic non-residue classes. (Turkish summary) **49** #2499
- Kelly, Lucille See Heed, Joseph J., **52** #13601
- Kløve, Torleiv A generalization of Euler's theorem. **55** #244
- Koljada, A. A. Rank-free systems in systems of remainder classes. (Russian) **49** #196
- Komlós, János (with Sulyok, Miklós; Szemerédi, Endre) A lemma of combinatorial number theory. (Hungarian. English summary) **50** #2048
- Korobov, N. M. Complete systems of congruences. (Russian) **47** #3292
- Kravcov, V. K. Conversion of fractions from a place system into a system of residue classes and vice versa. (Russian) **45** #3303c
- See also Buza, M. K.; et al., **45** #3303d and Posnov, N. N.; et al., **45** #3303e
- Lehmer, Derrick Henry Strong Carmichael numbers. **54** #5093
- Lehmer, Emma Existence criteria for supplementary difference sets. **53** #13087
- Leonard, Philip A. (with Williams, Kenneth S.) The septic character of 2, 3, 5 and 7. **51** #319
- von Lienen, Horst Die Berechnung der dritten Einheitswurzeln in Restklassenkörpern. **49** #8922
- Litver, E. L. (with Judina, G. E.) Primitive roots for the first million primes and their powers. (Russian) **49** #4915
- Livingston, Albert E. (with Livingston, M. L.) The congruence $a^{r+s} \equiv a^r \pmod{m}$. **57** #12355
- Livingston, M. L. See Livingston, Albert E., **57** #12355
- Lovász, László On finite Dirichlet series. **45** #197 (EA 45)
- Lysov, A. I. An application of Horner's division scheme in the solution of algebraic congruences of higher degree. (Russian) **53** #5443
- McCarthy, Paul J. Regular arithmetical convolutions and the solutions of linear congruences. **45** #1823
- Counting restricted solutions of a linear congruence. **57** #5883
- Meyer, Robert A. The number of solutions of a system of congruences. **52** #5534

- Monzingo, M. G. On congruence modulo a power of a prime. 53 #247
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- Mordell, Louis Joel Rational functions representing all residues mod p . II. 46 #8945
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- Morgado, José On a theorem of Lucas related to the little Fermat theorem. (Portuguese) 48 #5971
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- Nathanson, Melvyn B. Monomial congruences. 58 #16479
- Novák, Břetislav (with Znám, Štefan) Disjoint covering systems. 48 #10958
- Osborn, Roger A "good" generalization of the Euler-Fermat theorem. 49 #197
- Parhami, Behrooz A class of residue number representation systems. 58 #27710
- Patrizio, Serafino Generalizzazione del teorema di Wilson alle terne prime. (French summary) 55 #251
- Perel'muter, G. I. (with Postnikov, A. G.) The number of solutions of a certain congruence. (Russian) 47 #3293
- Phythian, J. E. Divisors using Fermat's theorem. 58 #27711
- Pollard, J. M. A generalisation of the theorem of Cauchy and Davenport. 50 #6995
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- Pomerance, Carl On the congruences $\sigma(n) \equiv a \pmod{n}$ and $n \equiv a \pmod{\varphi(n)}$. 52 #5535
- Popa, Valeriu On a generalization of the theorem of Clement. (Romanian. French summary) 46 #5221
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- Popescu, Ion C. A proof of Wilson's theorem. (Romanian) 50 #6997
- Porubský, Štefan Generalization of some results for exactly covering systems. 46 #7136
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- Primrose, E. J. F. The number of quadratic residues mod m . 57 #218
- Rajwade, A. R. Some congruences in algebraic integers and rational integers. 58 #473
- Rameswar Rao, D. ★A few results on congruences and quadratic residues. 49 #198
- Rieger, Georg Johann Bemerkungen über gewisse nichtlineare Kongruenzen. 57 #3054
- Riesel, Hans A consequence of the von Staudt-Clausen theorem. 49 #199
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- Sasaki, Siro On quadratic residues as well as nonresidues. (Japanese) 52 #5536
- Schwarz, Wolfgang Eine Bemerkung über Restklassencharaktere. 51 #12667
- Shanks, Daniel Fibonacci primitive roots. 45 #6747
- Shiue, Jau Shyong (with Huang, Chih Ping) A complete residue system in the integral quaternions. 58 #5477
- Sinha, T. N. An extension of a theorem of Lehmer. 45 #6748
- Sin'kov, M. V. Number-theoretic methods in the four-dimensional system of biquaternions. (Russian) 57 #16177
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- Siu, Man Keung When is -1 a power of 2? 52 #13602
- Small, Charles Powers mod n . 55 #10363
- Stephens, N. M. On the Feit-Thompson conjecture. 45 #6738
- Stöwener, F. Simultanbeweis des Fermatschen und Wilsonschen Satzes. 50 #12883
- Subbarao, M. V. On two congruences for primality. 50 #2049
- Sulyok, Miklós See Komlós, János; et al., 50 #2048
- Sun, Hugo S. A group-theoretical proof of a theorem in elementary number theory. 47 #3294
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- Suryanarayana, D. Congruences for sums of powers of primitive roots and Ramanujan's sum. 52 #13603 (E 54 #2567)
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- Szemerédi, Endre See Komlós, János; et al., 50 #2048 and Erdős, Paul, 54 #12609
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- Venkataraman, T. Problems on Lucas numbers. 53 #13088
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- Warlimont, Richard On Artin's conjecture. 46 #1691
- Watabe, Mutsuo An arithmetical application of elliptic functions to the theory of cubic residues. 58 #5479
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- Wilansky, Albert Primitive roots without quadratic reciprocity. 53 #5444
- Wild, K. See Hall, R. R., 52 #13600
- Williams, H. C. Some algorithms for solving $x^q \equiv N \pmod{p}$. 51 #320
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- Williams, Kenneth S. Small solutions of the congruence $a_1x_1^3 + a_2x_2^3 + a_0 \equiv 0 \pmod{p}$. 45 #159
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- Williamson, J. H. See Jackson, T. H.; et al., 46 #1690
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- Wright, E. M. Arithmetical properties of Euler's rencontre number. 45 #3304
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- Adleman, Leonard (with Manders, Kenneth; Miller, Gary Glenn) On taking roots in finite fields. (58 #19339)
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- Berndt, Bruce C. Classical theorems on quadratic residues. (56 #229)
- Bijašev, R. G. Detection and correction of a binary error in a nonpositional code (Russian) (56 #11507)
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- Raber, Neal C. A geometric approach to counting distribution of squares in a finite field. 53 #2823
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- Sivanov, F. S. An attempt to construct a purely arithmetical additive theory of the natural numbers. (Russian) 45 #3301
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- Spikin, A. M. See Golubev, V. A., 52 #8026
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- Erdős, Paul Problems and results on combinatorial number theory. III. (57 #12442)
- Howard, F. T. Formulas for the number of binomial coefficients divisible by a fixed power of a prime. (46 #8842)
- Ireland, Kenneth (with Rosen, Michael I.) ★Elements of number theory. Including introduction to equations over finite fields. (58 #27701)
- (Lehmer, Derrick Henry) See Swift, J. Dean, (58 #31707)
- Mitchison, G. J. Phyllotaxis and the Fibonacci series. (Not reviewed)
- (Poulet, P.) See Swift, J. Dean, (58 #31707)
- Roselle, David P. See Cordes, Craig M., (47 #3209)
- Rosen, Michael I. See Ireland, Kenneth, (58 #27701)
- Sasaki, Siro On Pascal's triangle. (Japanese) (54 #7276)
- Stein, Sherman K. Factors of some direct products. (49 #10574)
- Storer, Thomas On infinite families of difference sets in Galois domains. (48 #108)
- Swift, J. Dean Errata to D. H. Lehmer's "Table errata: Table des nombres composés vérifiant le théorème de Fermat pour le module 2 jusqu'à 100.000.000" by P. Poulet. (Math. Comp. 25 (1971), no. 116, 944-945). (58 #31707)
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- Bařmakova, I. G. ★Диофант и диофантовы уравнения. (Russian) [Diophantus and Diophantine equations] 54 #2584
- Gelfond, A. O. ★Die Auflösung von Gleichungen in ganzen Zahlen (Diophantische Gleichungen). 49 #10635
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- (Kisin, V.) See Kuroš, A. G., 56 #11888
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10B05 Linear, quadratic and bilinear equations

- Allison, D. On square values of quadratics. 57 #229
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- Alter, Ronald (with Curtz, Thaddeus B.) A note on congruent numbers. 49 #2504 (E 5 #13629)
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- (with Curtz, Thaddeus B.) Correction to: "A note on congruent numbers" (Math. Comp. 28 (1974), 303-305). 52 #13629
- Arpaia, P. J. A generating property for Pythagorean triples. 46 #3441
- Avanesov, È. T. Linear Diophantine equations. (Russian) 47 #126
- Bartoš, Pavel A certain system of Diophantine equations. (Slovak) 50 #7019
- On the solvability of the Diophantine equation $\sum_{j=1}^n (1/x_j) = (a/b)$. (Slovak. German summary) 48 #5997
- A remark on the number of solutions of the optical equation. (Slovak. German summary) 50 #7018
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- Beach, B. D. (with Williams, H. C.) A numerical investigation of the Diophantine equation $x^2 - dy^2 = -1$. 50 #231
- Belkner, Horst Die diophantischen Gleichungen $x_1^2 + \dots + x_k^2 = (a_1^2 + \dots + a_k^2) x_k^{2n}$ und $x_1^2 + x_2^2 = (a_1^2 + a_2^2) x_3^2$. 45 #6756
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- hart, Eugène Sur les systèmes d'inéquations diophantiennes linéaires. **49** #214
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- Steiner, Ray P. (with London, Hymie) On triangular numbers which are sums of consecutive squares. **46** #3443
- Stephens, N. M. Congruence properties of congruent numbers. **52** #260
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- Thouvenot, S. Résolution en nombres entiers de l'équation diophantienne $n(n+1) = 2n'(n'+1)$. **45** #3319
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- Vitek, Yehoshua Bounds for a linear diophantine problem of Frobenius. **51** #10218
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- Wrigley, Nicholas G. See Ljunggren, Wilhelm; et al., **50** #232
- Wulczyn, Gregory Minimum solutions to $x^2 - Dy^2 = \pm 1$. **52** #10588
- Xeroudakes, Georgios F. A Diophantine equation in virus structure. **52** #8028
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- Adleman, Leonard See Manders, Kenneth, (**55** #11710)
- Alter, Ronald (with Curtz, Thaddeus B.; Kubota, Kenneth K.) Remarks and results on congruent numbers. (**50** #2047)
- (with Kubota, Kenneth K.) Multiplicities of second order linear recurrences. (**56** #235a)
- (Bail, Derek G.) See Quadling, D. A., (**58** #16490b)
- Barkan, Philippe Sur l'équation diophantienne $X^2 - mY^2 = -2$. (English summary) (**54** #5179)
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- Bel'skii, A. A. Rational points of intersection of two hyperquadrics. (Russian) (**46** #3517)

- Berți, Șt. (with Burlacu, Eugen) Quelques considérations concernant les relations binaires complexes. (56 #329)
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- Ehrhart, Eugène ★ Polynômes arithmétiques et méthode des polyèdres en combinatoire. (55 #5544)
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- (Fox, L.) See Quadling, D. A., (58 #16490b)
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- Nagell, Trygve Sur la représentabilité de zéro par certaines formes quadratiques. (English summary) **46** #7162
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- Pan, Cheng Dong (with Ding, Xia Xi; Wang, Yuan) On the representation of a large even integer as a sum of a prime and an almost prime. **57** #5897
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- 'chiyama, Saburō** On the number of representations of an integer as the sum of a powerful and a squarefree integers. **45** #8621
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- Cook, Roger J. Pairs of additive equations. (47 #131)
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 Bundschuh, Peter Zur simultanen Approximation von $\beta_0, \dots, \beta_{n-1}$ und $\prod_{v=0}^{n-1} \alpha_v \beta_v$ durch algebraische Zahlen. (52 #5583)
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 Kotov, S. V. The Thue-Mahler equation in relative fields. (Russian) (51 #12722)
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 Nečae, V. I. Trigonometric sums for recurrent sequences. (Russian) (50 #2071)
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 Siegel, Carl Ludwig Normen algebraischer Zahlen. (49 #7237)
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- Butter, D. A. On certain Diophantine equations. 45 #3316
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- Adleman, Leonard (with Manders, Kenneth) Diophantine complexity. (56 #7314)
 Bollman, Dorothy (with Laplaza, Miguel L.) Some decision problems for polynomial mappings. (58 #16585)
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 Denef, J. Hilbert's tenth problem for quadratic rings. (50 #12961)
 Diophantine sets over $\mathbb{Z}[T]$. (57 #2899)
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 Jarden, Moshe Elementary statements over large algebraic fields. (46 #1795)
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 Mullin, Albert A. Applications of fixed-point theory to number theory. (56 #5439)
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- (Malyšev, A. V.) See Serre, Jean-Pierre, (50 #4527)
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 Serre, Jean-Pierre ★Курс арифметики. (Russian) [A course in arithmetic] (50 #4527)
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 Sharma, S. D. Old Indian theory of numbers and its applications in nuclear and solid state physics. (57 #15844)
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- ariels, Hans-Jochen Invarianten hermitescher Formen über Schiefkörpern. **54** #7374
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- ecker, Eberhard (with Köpping, Eberhard) Reduzierte quadratische Formen und Semiordnungen reeller Körper. **58** #21934
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- bergum, Gerald E. (with Hoggatt, Verner E., Jr.) Irreducibility of Lucas and generalized Lucas polynomials. **50** #2074
- birman, Joan S. (with Magnus, Wilhelm) Correction to: "Discriminant and projective invariants of binary forms" (Comm. Pure Appl. Math. **23** (1970), 269-275). **48** #3880
- bröcker, Ludwig Zur orthogonalen Geometrie über pythagoreischen Körpern. **52** #8036
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- öller, Friedrich Wilh. Ein Beitrag zur Klassifikationstheorie der Hilbertschen Modulflächen. (52 #13858)
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- bota, Tomio The reciprocity law and real analysis. (Japanese) (57 #9671)
- dia, Stephen S. On the R -forms of certain algebraic varieties. (52 #410)
- nglands, R. P. ★ On the functional equations satisfied by Eisenstein series. (58 #28319)
See also Borel, Armand, (56 #5433)
- oletkin, G. N. Zeta-functions of parabolic forms. (Russian) (53 #2900)
- rita, Yasuo An explicit formula for the dimension of spaces of Siegel modular forms of degree two. (50 #239)
- vodvorskij, Mark E. Euler products for the full linear and symplectic groups. (Russian) (53 #2901)
Théorie de Hecke pour certains groupes orthogonaux. (English summary) (55 #12699)
- llis, Stephen J. (with Schiffmann, Gérard) Représentations supercuspidales du groupe métaplectique. (English summary) (55 #5534)
- snikoff, H. L. Automorphic forms and automorphy preserving differential operators on products of halfplanes. (46 #5680)
- bet, Kenneth A. p -adic interpolation via Hilbert modular forms. (54 #7435)
- dier, François Les représentations de $GSp(4, k)$ où k est un corps local. (English summary) (56 #5802)
- take, Ichirō On the blowing-ups of Hilbert modular surfaces. (56 #3027)
- hiffmann, Gérard See Rallis, Stephen J., (55 #5534)
- hneider, Volker Elliptische Fixpunkte und Drehfaktoren zur Modulgruppe in Quaternionenschiefkörpern über reellquadratischen Zahlkörpern. (55 #5537)
- hwermmer, Joachim Sur la cohomologie des sous-groupes de congruence de $SL_3(Z)$. (English summary) (55 #3162)
- menov-Tjan-Šanskii, M. A. Harmonic analysis on Riemannian symmetric spaces of negative curvature, and scattering theory. (Russian) (57 #7044)
- režkin, V. N. See Zaleskii, A. E., (58 #16901)
- halika, Joseph A. Some conjectures in class field theory. (49 #10664)
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- avel, Ira H. A class of algebraic surfaces of general type constructed from quaternion algebras. (58 #28002)
- himura, Goro On some arithmetic properties of modular forms of one and several variables. (58 #10758)
Theta functions with complex multiplication. (54 #12664)
- shintani, Takuro On evaluation of zeta functions of totally real algebraic number fields at non-positive integers. (55 #266)
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- shioda, Tetsuji On elliptic modular surfaces. (55 #2927)
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- egel, Carl Ludwig Über Moduln Abelscher Funktionen. (47 #3400)
- midt, Janusz The duality theorem for integrable representations and Langlands conjectures. (Russian summary) (58 #28305)
- erada, Toshiaki Problème de Riemann et fonctions automorphes provenant des fonctions hypergéométriques de plusieurs variables. (58 #1299)
- n de Ven, A. See Hirzebruch, F., (51 #517) and van der Geer, G., (58 #692)
- enkov, A. B. The Selberg trace formula for $SL(3, Z)$. (Russian) (58 #6072)
- ignères, Marie-France Genre arithmétique des groupes modulaires de Hilbert et nombres de classes de quaternions. (55 #10428)
- armer, Garth See Gangolli, Ramesh, (53 #3199)

- Wicks, M. J. Similarity and congruence for 2×2 integral matrices. (57 #3165)
- Yamazaki, Tadashi On Siegel modular forms of degree two. (53 #8517)
- Yoshida, Hiroyuki On extraordinary representations of GL_2 . (58 #11246)
- Zagier, Don Bernard Formes modulaires à une et deux variables. (53 #2837)
Modular forms associated to real quadratic fields. (52 #3062)
- Zaleskii, A. E. (with Serežkin, V. N.) Linear groups that are generated by pseudoreflections. (Russian) (58 #16901)

10D25 Complex multiplication [See also 14K22.]

- Koike, Masao On certain Abelian varieties obtained from new forms of weight 2 on $\Gamma_0(3^4)$ and $\Gamma_0(3^5)$. 54 #2595
- (Kuyk, Willem) See Shimura, Goro, 58 #16532a (E 58 #16532b)
- Ligozat, Gérard Courbes modulaires de niveau 11. 57 #3079
- Ohta, Masami On l -adic representations of Galois groups obtained from certain two-dimensional abelian varieties. 54 #7389
- Rajwade, A. R. Some formulae for elliptic curves with complex multiplication. 57 #16210
- Shimura, Goro On elliptic curves with complex multiplication as factors of the Jacobians of modular function fields. 45 #5111
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- Bertrand, Daniel Séries d’Eisenstein et transcendence. (55 #10398)
- Brezin, Jonathan ★ Harmonic analysis on compact solvmanifolds. (56 #5783)
- Delligne, Pierre Travaux de Shimura. (58 #16675)
- Harder, G. A Gauss-Bonnet formula for discrete arithmetically defined groups. (46 #8255)
- Hejhal, Dennis A. Sur certaines séries de Dirichlet dont les pôles sont sur les lignes critiques. (English summary) (58 #16558)
- Katz, Nicholas M. p -adic interpolation of real analytic Eisenstein series. (58 #22071)
- Kenku, M. A. On the L -function of quadratic forms. (51 #12793)
- Lang, Serge ★ Elliptic functions. (53 #13117)
- Masser, David William ★ Elliptic functions and transcendence. (52 #296)
Diophantine approximation and lattices with complex multiplication. (58 #5540)
- Olson, Loren D. Hasse invariants and anomalous primes for elliptic curves with complex multiplication. (56 #8487)
- Robert, Gilles Unités elliptiques et formules pour le nombre de classes. (51 #10288)
- Shih, Kuang-yen Anti-holomorphic automorphisms of arithmetic automorphic function fields. (57 #5910)
Conjugations of arithmetic automorphic function fields. (58 #28007)
- Shimura, Goro On arithmetic automorphic functions. (57 #12530)
- Shintani, Takuro On certain ray class invariants of real quadratic fields. (58 #16599)
- Stark, H. M. Class-numbers of complex quadratic fields. (49 #8965)
- (Tate, J.) See Lang, Serge, (53 #13117)
- Weil, André Sur les périodes des intégrales abéliennes. (54 #10156)
Remarks on Hecke’s lemma and its use. (58 #699)

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- Drinfel’d, V. G. Elliptic modules. (Russian) 52 #5580
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- Harder, G. Chevalley groups over function fields and automorphic forms. 58 #27799
- Karel, Martin L. Fourier coefficients of certain Eisenstein series. 45 #6760
- Kogan, L. A. (with Mirsalihov, A.) The representability of theta-series by Eisenstein series. (Russian. Uzbek summary) 45 #6761
- Kubota, Tomio On a generalized Fourier transformation. 56 #5438
- Mirsalihov, A. See Kogan, L. A., 45 #6761
- Šopova, Dimitricha An account of certain applications of Jacobi’s elliptic functions by elementary means. (Bulgarian. French summary) 53 #2843

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- Allan, Nelo D. Hecke algebras of non principal congruence subgroups. (56 #3195)
- Chaba, A. N. (with Pathria, R. K.) Evaluation of lattice sums using Poisson’s summation formula. IV. (58 #6807)
- Hijkata, Hiroaki On certain identities between the traces of Hecke operators. (48 #3884)
- Jenner, W. E. On parametrization of elliptic curves by theta functions. (46 #9049)
- Kazhdan, David On arithmetic varieties. (58 #6073)
- Mautner, Friederich Ignaz Formules de trace explicites et nombre de points d’un réseau. (48 #8446)
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- Novodvorsky, Mark E. Representations of certain adèle groups. (Russian) (58 #16989)
- Pathria, R. K. See Chaba, A. N., (58 #6807)

10Exx Geometry of numbers

- Postnikova, L. P. ★ Геометрия чисел и дюрфантов приближения. (Russian) [Geometry of numbers and Diophantine approximations] 58 #16533

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- Fejes Tóth, László ★ Lagerungen in der Ebene auf der Kugel und im Raum. (50 #5603)

10E05 Lattices and convex bodies [See also 10J25.]

- Aitchison, Peter W. Two finiteness theorems in the Minkowski theory of reduction. 47 #6615
- Baiada, Emilio (with Tripiciano, Giulia) Aree dei convessi e punti a coordinate intere. II. 53 #13121
(with Tripiciano, Giulia) Area dei convessi e punti a coordinate intere. (English summary) 52 #3066
- Bambah, R. P. (with Woods, A. C.) On a theorem of Dyson. 50 #9802
- Bantegnie, Robert Sur une propriété de transfert concernant les boules de R^n . 46 #5252
- Baranovskii, E. P. See Ryškov, S. S., 57 #9655
- Barnes, E. S. (with Mather, Michael) The number of non-homogeneous lattice points in subsets of R^n . 56 #11910
- Bartoš, Pavel A Diophantine problem concerning tangential polygons. (Slovak. English summary) 46 #1708
- Bleicher, Michael N. The thinnest three dimensional point lattice trapping a sphere. 57 #16211
- Bokowski, Jürgen Gitterpunktzahl und Parallelkörpervolumen von Eikörpern. (English summary) 51 #363
- Chalk, Henri Sur les points frontières des "corps R -ronds" de R^3 appartenant à un réseau. (English summary) 58 #21951
- Chakerian, Gulbank D. Lattice points inside a convex body. 51 #12716 (E 53 #13122)
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- Cohn, Harvey Support polygons and the resolution of modular functional singularities. 49 #7214
Finiteness of the formal ring of a quadratic sector. 55 #2766
- Cusick, T. W. View-obstruction problems. 48 #6007
- Dressler, Alexander Über die ungleichförmige Verteilung von Gitterpunkten in ebenen Bereichen. 46 #7168
- Duggal, Meenakshi (with Luthar, Indar S.) Minkowski's theorems in completions of A -fields of non-zero characteristic. 58 #5530
- Ehrhart, Eugène Une extension de la loi de réciprocité des polyèdres rationnels. 48 #10990
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- Erdős, Paul (with Purdy, George B.) Some extremal problems in geometry. III. 52 #13650
- Felt, Walter Some lattices over $\mathbb{Q}(\sqrt{-3})$. 58 #16534
- Fidaro, A. Č. See Grišanoskaja, K. I.; et al., 58 #27800
- Golser, Georg Über Gitterkonstanten spezieller Sternkörper. 54 #7390
- Grišanoskaja, K. I. (with Malyšev, A. V.; Pačev, U. M.; Fidaro, A. Č.) Proof of the Minkowski conjecture concerning the critical determinant of the domain $|x|^p + |y|^p < 1$ for the case $5 < p < 6$. (Russian) 58 #27800
- Groemer, Helmut Continuity properties of Voronoi domains. 46 #1709
- Hadwiger, Hugo Das Wills'sche Funktional. (English summary) 52 #289
- Hall, R. R. A problem in combinatorial geometry. 52 #13651
On a conjecture of Littlewood. 53 #7954
- Harborth, Heiko Ein Extremalproblem für Gitterpunkte. 48 #6008
- Jones, Antony J. Cyclic overlattices III, IV. 55 #10396
- Karamikolov, Hristo Nikolov Sur un cas particulier d'une hypothèse de H. Minkowski. (Russian and Bulgarian summaries) 45 #3325
- Kitaoka, Yoshiyuki Representations of quadratic forms. 57 #3083
- Konjagin, S. V. Lattice points on strictly convex closed curves. (Russian) 57 #239
- Kuz'minyh, A. V. Integer-valued distances. (Russian) 55 #2767
- Low, L. A problem of Schinzel on lattice points. 56 #263
- Luthar, Indar S. See Duggal, Meenakshi, 58 #5530
- Mahler, Kurt An addition to a note of mine: "Polar analogues of two theorems by Minkowski" (Bull. Austral. Math. Soc. 11 (1974), 121-129). 54 #2596
- Malyšev, A. V. A remark on a star set. (Russian) 49 #4936
Mordell's method of reciprocal lattices in the geometry of numbers. (Russian) 49 #4937
(with Voroneckii, A. B.) The proof of Minkowski's conjecture concerning the critical determinant of the region $|x|^p + |y|^p < 1$ for $p > 6$. 53 #10722
The application of an electronic computer to the proof of a certain conjecture of Minkowski from the geometry of numbers. (Russian) 58 #27801
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- Marsden, Martin J. Triangles with integer-valued sides. 49 #2562
- Mather, Michael The number of non-homogeneous lattice points in plane subsets. 57 #16212
See also Barnes, E. S., 56 #11910
- Mordell, Louis Joel An application of Minkowski's theorem in the geometry of numbers. 46 #1710
Note on the product of n inhomogeneous linear forms. 46 #5253
A linear form result in the geometry of numbers. 46 #5254
- Muhsinov, H. H. An application of the transport theorem to Čebotarev's problem, and the method of convex bodies in Minkowski's problem. (Russian) 56 #15563
- Mullin, Albert A. Applications of fixed-point theory to number theory. 56 #5439
- Narzullaev, H. N. Concerning the product of linear nonhomogeneous forms. (Russian) 46 #1711
(with Skubenko, B. F.) On the question of the inhomogeneous Minkowski problem. (Russian) 46 #1712
(with Skubenko, B. F.) Certain questions of the generalization of the central theorem of Minkowski. (Russian) 46 #1713 (EA 46)
- Novák, Břetislav On certain sum in number theory. 46 #7169
Über Gitterpunkte in mehrdimensionalen Ellipsoiden. 46 #7170
- Overhagen, T. Zur Gitterpunktzahl konvexer Körper im 3-dimensionalen euklidischen Raum. 53 #281
- Pačev, U. M. See Grišanoskaja, K. I.; et al., 58 #27800
- Purdy, George B. See Erdős, Paul, 52 #13650
- Ryškov, S. S. (with Baranovskii, E. P.) ★ S -типы n -мерных решеток и пятимерные параллелоэдры (с приложением к теории покрытий). (Russian) [S-types of n -dimensional lattices and five-dimensional primitive parallelehedra: an application to covering theory] 57 #9655
- Scharf, Rainer (with Wills, Jörg M.) Translationen, Bewegungen und Gitterpunkte in konvexen Bereichen. 50 #4498
- Scott, P. R. A new extension of Minkowski's theorem. 58 #21952
- Sheng, T. K. Lines determined by lattice points in R^2 . 57 #12405
- Skubenko, B. F. On Minkowski's conjecture for $n=5$. (Russian) 46 #5255
See also Narzullaev, H. N., 46 #1712 and Narzullaev, H. N., 46 #1713 (EA 46)
- Surányi, János Lattice point free rectangles. 53 #7955
- Swinnerton-Dyer, H. P. F. Applications of computers to the geometry of numbers. 49 #4938
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- Wills, Jörg M. Über konvexe Gitterpolygone. 49 #222
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- Woods, A. C. The product of inhomogeneous linear forms. 52 #8040
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- Bernstein, D. N. The number of lattice points in integer polyhedra. (Russian) (54 #8451)
- Beukers, F. The lattice-points of n -dimensional tetrahedra. (52 #5605)
- Elkington, Gordon Bradley (with Hammer, Joseph) Lattice points in a convex set given width. (54 #3594)
- Fricker, François Über den Gitterrest mehrdimensionaler Kugeln. II. (48 #6046)
- Gruber, Peter M. Über kennzeichnende Eigenschaften von euklidischen Räumen und Ellipsoiden. I. (49 #3694)
Über kennzeichnende Eigenschaften von euklidischen Räumen und Ellipsoiden. II. (54 #5974)
- Hadwiger, Hugo (with Wills, Jörg M.) Über Eikörper und Gitterpunkte im gewöhnlichen Raum. (54 #1089)
- Hammer, Joseph ★Unsolved problems concerning lattice points. (56 #16515)
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- Kátai, Imre (with Környei, I.) On the distribution of lattice points on circles. (58 #21985)
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- McFeat, R. B. Geometry of numbers in adele spaces. (47 #6653)
- Novák, Břetislav Lattice points in moredimensional ellipsoids. (Russian summary) (49 #7226)
- Ozeki, Michio On a relation satisfied by Fourier coefficients of theta-series of degree one and two. (53 #13120)
- Schoenberg, Isaac Jacob Extremum problems for the motions of a billiard ball. II. L_∞ norm. (53 #9041)
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An analogue of Minkowski's theorem in the plane. (51 #4058)
Area-diameter relations for two-dimensional lattices. (50 #1130)
On Minkowski's theorem. (51 #4050)
On convex lattice polygons. (55 #3964)
Lattice points in convex sets. (53 #9034)
- Stanley, Richard P. Combinatorial reciprocity theorems. (54 #111)
- Szemerédi, Endre See Ajtai, M., (51 #5534)
- Tripiciano, Giulia Volume dei convessi e punti a coordinate intere. (57 #13695)
- Wills, Jörg M. Gitterpunkte und Volumen-Oberfläche-Verhältnis konvexer Mengen. (45 #7618)
See also Hadwiger, Hugo, (54 #1089)
- Wójcik, Jan The application of the geometry of numbers to the representation of natural numbers as a sum of squares. (Polish) (58 #27704)

10E10 Nonconvex bodies

- Bambah, R. P. (with Dumir, Vishwa Chander; Hans-Gill, Rajinder Jeet) Covering star domains. 58 #5531
- Baranovskii, E. P. Simplexes of L -decompositions of Euclidean spaces. (Russian) 45 #182
- Dumir, Vishwa Chander See Bambah, R. P.; et al., 58 #5531
- Gerber, Leon The orthocentric simplex as an extreme simplex. 51 #12717
- Hans-Gill, Rajinder Jeet See Bambah, R. P.; et al., 58 #5531
- Roth, K. F. On a problem of Heilbronn. II, III. 46 #3452

10E15 Products of linear forms

- Akramov, U. A. See Pen, A. S., 58 #21953
- Bambah, R. P. (with Woods, A. C.) On the product of three inhomogeneous linear forms. 57 #12406
- Davenport, Harold A determinant of linear forms. 45 #3327
- Fujiwara, Masahiko On the best possible exponent in norm form inequalities. 52 #12405
(Lewis, Donald J.) See Davenport, Harold, 45 #3327
- Narzullaev, H. N. On simultaneous approximations. (Russian) 56 #15564
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- Pen, A. S. (with Akramov, U. A.) An upper bound for the least product of coordinates of a vertex of a divided parallelepiped. (Russian) 58 #21953

v, T. P. A certain inequality concerning several homogeneous linear forms with rational complex coefficients. (Bulgarian. Russian and French summaries) **48** #6009

enko, B. F. On a theorem of Čebotarev. (Russian) **58** #10759

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en, T. See **Janner, Aloysio**, **(58** #4111)

a, Michael O. Proving simultaneous positivity of linear forms. **(56** #10140)

10E20 Minima of forms

es, E. S. (with Cohn, M. J.) On the inner product of positive quadratic forms. **52** #8041

t, Harvey Ternary forms as invariants of Markoff forms and other $SL_2(\mathbb{Z})$ -bundles. **58** #10760

l, M. J. See **Barnes, E. S.**, **52** #8041

ck, T. W. The connection between the Lagrange and Markoff spectra. **51** #10240

er, U. How to calculate shortest vectors in a lattice. **52** #291

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On the minimum of zero indefinite binary quadratic forms. **58** #10761

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er, Peter M. Bemerkungen zum Umkehrproblem für den Minkowskischen Linearformensatz. **47** #4935

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ldt, Asmus L. Minimum of quadratic forms with respect to Fuchsian groups. I. **56** #15566

Minimum of quadratic forms with respect to Fuchsian groups. II. **56** #15567

nko, B. F. A new variant of the proof of the inhomogeneous Minkowski conjecture for $n=5$. (Russian) **58** #27803

ey, K. C. The perfect septenary forms with $D_4=2$. **55** #7929

nev, S. Š. Estimate of the origin of the ray of extremality of the second perfect form in four variables. (Russian) **57** #12407

Estimate of the origin of the ray of extremality of the principal perfect form in $n(>2)$ variables. (Russian) **57** #12408

eres, George Multidimensional continued fractions. **47** #1753

rov, M. H. An algorithm for finding representations of the arithmetical minimum of a positive form. (Russian) **57** #240

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evič, E. A. Étale cohomology, T -genus and integral orbits of affine group schemes. (Russian) **(58** #5696)

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Geometry of positive quadratic forms. (Russian) **(54** #12665)

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ndner, Hans Günther A periodicity lemma in linear Diophantine analysis. **(53** #2825)

10E25 Quadratic forms (reduction, extreme forms, etc.)

itage, J. V. The product of N linear forms in a field of series and the Riemann hypothesis for curves. **50** #12923

Avner On eutactic forms. **58** #10762

ag, I. A. (with Dolgii, G. T.) A geometric interpretation of the reduction in the sense of Selling of ternary positive definite quadratic forms. (Russian) **58** #27804

unovskii, E. P. Primitive five-dimensional parallelohedra. (Russian) **51** #5506

Volumes of L -simplexes of five-dimensional lattices. (Russian) **50** #4499

On the reduction, in the sense of Selling, of positive quadratic forms of five variables. (Russian) **58** #27805

es, E. S. (with Cohn, M. J.) On the reduction of positive quaternary quadratic

forms. **56** #264

An extended inhomogeneous minimum. **57** #241

(with Cohn, M. J.) On Minkowski reduction of positive quaternary quadratic forms. **58** #27806

Chalix, Henri Points extrémaux d'un convexe compact de R^n appartenant à un réseau. **57** #9656

Cohn, Harvey Some direct limits of primitive homotopy words and of Markoff geodesics. **51** #5504

Cohn, M. J. See **Barnes, E. S.**, **56** #264 and **Barnes, E. S.**, **58** #27806

Craig, Maurice A characterization of certain extreme forms. **56** #5440

Extreme forms and cyclotomy. **58** #10763

Crisall, A. J. The fundamental cone and the Minkowski cone. **52** #8043

Davenport, Harold Homogeneous quadratic equations. **45** #1842

Delone, B. N. (with Ryškov, S. S.) Extremal problems of the theory of positive quadratic forms. (Russian) **49** #4939

Dickson, T. J. On Voronoi reduction of positive definite quadratic forms. **47** #8441

Doboš, V. Ľ. (with Studněv, Ju. P.) Randomization of the theory of positive definiteness of higher order forms. (Russian. English summary) **58** #5532

Dolgii, G. T. See **Baltag, I. A.**, **58** #27804

Fiedler, M. Positivity with respect to the round cone. **51** #365

Fields, K. L. On the group of integral automorphs of a positive definite quadratic form. **55** #5543

Gruber, Peter M. Eine Bemerkung über *DOTU*-Matrizen. **58** #528

Jacobson, David H. A generalization of Finsler's theorem for quadratic inequalities and equalities. **55** #2768

Kéri, Gerzson On a certain class of quadratic forms. (Hungarian. English summary) **58** #529

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Raghavan, S. Values of quadratic forms. **55** #7930

Rehman, Fazal Small values of quadratic forms. **57** #12409a

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Ryškov, S. S. Maximal finite groups of $n \times n$ integral matrices and full integral automorphism groups of positive quadratic forms (Bravais types). (Russian) **49** #8939

C-types of n -dimensional parallelohedra. (Russian) **51** #5505

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The perfect form A_n^+ : existence of lattices with a nonfundamental partition simplex; existence of perfect forms that are not reducible in the sense of Minkowski to a form with identical diagonal coefficients. (Russian) **50** #7038

The reduction, in the sense of Venkov, of positive quadratic forms. (Russian) **58** #27808

Density of an (r, R) -system. (Russian) **53** #282

Geometry of positive quadratic forms. (Russian) **54** #12665

On the problem of determining perfect quadratic forms of several variables. (Russian) **58** #27807

Two symbols in the geometry of positive quadratic forms (the symbols of the edges of a Voronoi polyhedron). (Russian) **58** #27809

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Skubenko, B. F. A proof of Minkowski's conjecture on the product of n linear inhomogeneous forms in n variables for $n < 5$. (Russian) **51** #3061

Stacey, K. C. The enumeration of perfect septenary forms. **51** #5507

Štogrin, M. I. The Voronoi, Venkov and Minkowski reduction domains. (Russian) **49** #2563

Locally quasidensest lattice packings of spheres. (Russian) **50** #12924

Studněv, Ju. P. See **Doboš, V. Ľ.**, **58** #5532

Stuhler, Ulrich Eine Bemerkung zur Reduktionstheorie quadratischer Formen. **54** #12666

Zur Reduktionstheorie der positiven quadratischen Formen. II. **56** #5441

Šušbaev, S. Š. An estimate of the origin of the ray of extremality of the principal perfect form in four variables. (Russian) **55** #2769

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The Dirichlet-Voronoi domain for the second perfect form. (Russian) **58** #27811

The Rankin-Sobolev problem on extrema of Epstein's zeta function. The origin of the ray of extremality of the principal perfect form. (Russian. Uzbek summary) **57** #16213

Tamagawa, Tsuneo On indefinite quadratic forms. **56** #5442

Tammela, P. P. The Hermite-Minkowski domain of reduction of positive quadratic forms in six variables. (Russian) **49** #2564

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The Minkowski reduction domain for positive quadratic forms of seven variables. (Russian) **57** #12410

Vuloh, L. Ja. The Markov spectrum of a Gaussian field. (Russian) **47** #6616

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- connection with the inhomogeneous Minkowski conjecture). (Russian) (56 #265)
- Ash, Avner Cohomology of subgroups of finite index of $SL(3, \mathbb{Z})$ and $SL(4, \mathbb{Z})$. (55 #3161)
- Choi, Man Duen (with Lam, Tsit Yuen) Extremal positive semidefinite forms. (58 #16512)
- Cohn, Harvey Formal ring of a cubic solid angle. (58 #16513)
- Delone, B. N. (with Galiulin, R. V.; Štogrin, M. I.) The types of Bravais lattices. (Russian) (54 #1068)
- Galiulin, R. V. See Delone, B. N.; et al., (54 #1068)
- Karhan, Z. A. The covering problem for the fields $\mathbb{Q}(-1)^{1/2}$ and $\mathbb{Q}(-3)^{1/2}$. (58 #530)
- Lam, Tsit Yuen See Choi, Man Duen, (58 #16512)
- Malyšev, A. V. Markov and Lagrange spectra (a survey of the literature). (Russian) (56 #267)
- Meyer, Josef Präsentation der Einheitengruppe der quadratischen Form $F(X) = -X_0^2 + X_1^2 + \dots + X_{18}^2$. (57 #233)
- Montgomery, Hugh L. (with Vaughan, Robert-C.) Hilbert's inequality. (49 #2544)
- Namikawa, Yukihiko A new compactification of the Siegel space and degeneration of polarized Abelian varieties. (Japanese) (58 #16697)
- Nikulin, V. V. Finite groups of automorphisms of Kählerian surfaces of type $K3$. (Russian) (53 #13656)
- Peters, Meinhard Einklassige Geschlechter von Einheitsformen in total reellen algebraischen Zahlkörpern. (57 #5951)
- Schecker, Hanno Über die Menge der Zahlen, die als Minima quadratischer Formen auftreten. (English summary) (57 #5914)
- Schmidt, Asmus L. Diophantine approximation of complex numbers. (54 #10160)
- On C -minimal forms. (51 #12705)
- Štogrin, M. I. See Delone, B. N.; et al., (54 #1068)
- Šušbaev, S. Š. The determination of the groups of integer automorphisms of perfect quadratic forms. (Russian. Uzbek summary) (49 #7215)
- Tammela, P. P. On the reduction theory of positive quadratic forms. (Russian) (48 #240)
- Umarov, M. H. An algorithm for finding representations of the arithmetical minimum of a positive form. (Russian) (57 #240)
- Vaughan, Robert-C. See Montgomery, Hugh L., (49 #2544)
- Waller, Derek A. Optimisation of quadratic forms associated with graphs. (58 #21866)
- Yao, Andrew Chi Chih On computing the minima of quadratic forms (preliminary report). (56 #13791)
- Bibliography:**
Markov and Lagrange spectra See Malyšev, A. V., (56 #267)

10E30 Lattice packing and covering [See also 05B40, 52A45.]

- Alexander, Joyce M. See Saaty, Thomas L., 51 #3062
- Bambah, R. P. Packing and covering. 46 #138
- Geometry of numbers, packing and covering and discrete geometry. 50 #2083
- Bantegnie, Robert La "conjecture des cylindres". (English summary) 49 #4940
- Étalements cristallographiques. 58 #5533
- Baranovskii, E. P. (with Lomakina, Z. D.; Ryškov, S. S.) The size of the angle at the vertex of a regular n -dimensional ($n=5, 6, 7, 8$) simplex, and certain estimates in the geometry of numbers. (Russian) 53 #10723
- See also Ryškov, S. S., 55 #273
- Cohn, M. J. Multiple lattice covering of space. 52 #10604
- Dobilin, N. P. The covering radius of hyperbolically equivalent n -dimensional lattices, and the boundedness of the index of a divided parallelepiped. (Russian) 49 #225
- Dumir, Vishwa Chander (with Hans-Gill, Rajinder Jeet) A counter-example in geometry of numbers. 46 #7171
- Lattice double coverings in the plane. 46 #7172
- (with Hans-Gill, Rajinder Jeet) Lattice double packings in the plane. 46 #7173
- Dwyer, Denis See Hammer, Joseph. 55 #12646
- Fejes Tóth, László The densest packing of lenses in the plane. (Hungarian) 48 #2081
- Fischer, Roland Über die optimale Beleuchtung einer geraden Strasse. (English summary) 53 #10724
- Golubev, S. Ja. A certain property of lattices that relates polyhedra of the L - and V -subdivisions of the lattices. (Russian) 55 #2770
- Hammer, Joseph (with Dwyer, Denis) On sequences of lattice packings. 55 #12646
- Hans-Gill, Rajinder Jeet Maximal covering sets. I, II. 46 #5256
- See also Dumir, Vishwa Chander, 46 #7171 and Dumir, Vishwa Chander, 46 #7173
- Horváth, Jenő Die Dichte einer Kugelpackung in einer 4-dimensionalen Schicht. 51 #12718
- Close lattice packing of balls in lattices of the first type. (Russian) 58 #5534
- Lomakina, Z. D. See Baranovskii, E. P.; et al., 53 #10723
- Newman, Donald J. A gradually turning curve must come near a lattice point. 49 #10643
- Rahman, Mushfequr On certain N -admissible triangles in symmetric unbounded star domains. 53 #13123
- Roth, K. F. Developments in Heilbronn's triangle problem. 55 #2771
- Ryškov, S. S. On the question of the final ζ -optimality of lattices that yield the densest packing of n -dimensional balls. (Russian) 49 #2565
- (with Baranovskii, E. P.) Solution of the problem of the least dense lattice covering of five-dimensional space by equal spheres. (Russian) 55 #273
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- Saaty, Thomas L. (with Alexander, Joyce M.) Optimization and the geometry of numbers: packing and covering. 51 #3062
- Sheng, T. K. Distribution of rational points on the real line. 48 #6010
- Sloane, Neil J. A. Sphere packings constructed from BCH and Justesen codes. 47 #3321
- Woods, A. C. Covering six space with spheres. 46 #1714
- Yates, D. L. Suprema for a class of finite sums with an application to lattice coverings. 45 #3326

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- Baranovskii, E. P. Volumes of L -simplexes of five-dimensional lattices. (Russian) (50 #4499)
- Eggleton, Roger B. Where do all the triangles go? (51 #1584)
- Fejes Tóth, László Dichteste Kugelpackung. Eine Idee von Gauss. (58 #15945)
- Fischer, Roland Bemerkungen zum Beleuchtungsproblem von L. Fejes Tóth. (56 #2081)
- Graham, Ronald L. (with Witsenhausen, Hans S.; Zassenhaus, Hans J.) On tight packings in the Minkowski plane. (47 #961)
- Hollai, Márta Doppelgitterförmige Lagerungen inkongruenter Kreise und Kugeln. (54 #5978a)
- Lagerungen inkongruenter Kugeln. II. (54 #5978b)
- Horváth, Jenő Remarks on the theory of a cloud of spheres. (Russian) (48 #7125)
- Oler, N. Spaces of discrete subsets of a locally compact group. (53 #13473)
- Sloane, Neil J. A. Binary codes, lattices, and sphere-packings. (58 #9781)
- Codes over $GF(4)$ and complex lattices. (58 #9782)
- Witsenhausen, Hans S. See Graham, Ronald L.; et al., (47 #961)
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10E35 Mean value theorems

- Frolov, K. K. The connection of quadrature formulas and sublattices of the lattice integer vectors. (Russian) 55 #272
- Karian, Z. A. The covering problem for the fields $\mathbb{Q}(-1)^{1/2}$ and $\mathbb{Q}(-3)^{1/2}$. 58 #530

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- Griggs, Jerrold R. Another three part Sperner theorem. (58 #21638)
- Hadwiger, Hugo Zentralaffine Kennzeichnung des Jordanschen Inhaltes. (55 #8322)

10E40 Transfer theorems

- Dubois, Eugène Théorèmes de transfert en géométrie des nombres sur un anne d'adèles de \mathbb{Q} . (English summary) 54 #10157
- Luthar, Indar S. (with Vinyard, M.) A theorem of Mahler and some applications transference theorems. 58 #27813
- Mahler, Kurt Polar analogues of two theorems by Minkowski. 50 #7039 (E 54 #259)
- Vinyard, M. See Luthar, Indar S., 58 #27813

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- Ehrhart, Eugène ★ Polynômes arithmétiques et méthode des polyèdres en combinatoire. (55 #5544)

10E45 Automorphism groups of lattices

- Maksudova, M. K. (with Šušbaev, S. Š.) A computational scheme for the automorphism groups of positive quadratic forms. (Russian) 58 #16536
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- Lee, Ronnie (with Szczarba, R. H.) On the torsion in $K_4(\mathbb{Z})$ and $K_5(\mathbb{Z})$. (58 #11074a)
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- Szczarba, R. H. See Lee, Ronnie, (58 #11074a) and Soulé, Christophe, (58 #11074b)
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- Ahmedov, N. S. The representation of square matrices in the form of a product of a diagonal, an orthogonal, a triangular and an integral unimodular matrix (in connection with the inhomogeneous Minkowski conjecture). (Russian) 56 #265
- Cassels, J. W. S. ★ An introduction to the geometry of numbers. 46 #5257
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- Hall, R. R. (with Jackson, T. H.; Sudbery, A.; Wild, K.) Some advances in the no-three-in-line problem. 51 #3063
- Jackson, T. H. See Hall, R. R.; et al., 51 #3063
- Petrova, G. L. An irreducibility condition for a generating set of the semigroup of lattice points of a polyhedral cone. (Russian. English summary) 58 #531
- Rhin, Georges Géométrie des nombres p -adiques. 53 #283
- Roth, K. F. Estimation of the area of the smallest triangle obtained by selecting three of n points in a disc of unit area. 49 #226
- Stolarski, Kenneth B. The sum of the distances to N points on a sphere. 53 #284
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Fxx Diophantine approximation [See also 10K15.]

- li, Krishnaswami** ★Diophantine approximation. **53** #13124
- els, J. W. S.** ★An introduction to Diophantine approximation. **50** #2084
- ka, Edmund** Das Werk Perrons auf dem Gebiete der diophantischen Approximationen. **58** #10764
- uma, J. F.** ★Diophantische Approximationen. **49** #8940
- osuev, A. M.)** See Problems of the theory of Diophantine approximations, **53** #285
- ovskii, A. B.)** See Problems of the theory of Diophantine approximations, **53** #285
- arsky, Kenneth B.** ★Algebraic numbers and Diophantine approximation. **51** #10241
- hantine approximations** See Problems of the theory of Diophantine approximations, **53** #285
- ber Theory Institute** See Problems of the theory of Diophantine approximations, **53** #285
- blems of the theory of Diophantine approximations** ★Проблемы теории диофантовых приближений. (Russian) [Problems of the theory of Diophantine approximations] **53** #285

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- ouillers, Jean-Marc** Sur la répartition des nombres $[n^c]$ dans les progressions arithmétiques. (**49** #2603)
- nikova, L. P.** ★Геометрия чисел и диофантовы приближения. (Russian) [Geometry of numbers and Diophantine approximations] (**58** #16533)
- ndžuk, V. G.** ★Метрическая теория диофантовых приближений. (Russian) [Metric theory of Diophantine approximations] (**58** #16576)
- OF05** Approximation to one number
- ce, U.** (with Wills, Jörg M.) Untere Schranken für zwei diophantische Approximations-Funktionen. **47** #1749
- (with Löber, M.; Overhagen, T.) Zum Wertebereich einer diophantischen Approximations-Funktion. **51** #3064
- h, B. J.** Approximation to cubic irrationals. **49** #2566
- n, J. H. E.** Hurwitz' theorem. **47** #1750
- š, Bohuslav** A analog to the Lagrange numbers. **46** #139
- air, Vishwa Chander** (with Hans-Gill, Rajinder Jeet) On a conjecture of Mahler. **55** #7931
- an, L. C.** (with Maier, E. A.) On classical theorems of Hurwitz and Ford. **47** #8442
- o, Mikihiro** Large subfields and small subfields. **48** #2121
- ev, R.** A certain sum that is connected with fractional parts. (Russian. Tajiki summary) **48** #6011
- tenberg, Harry** Intersections of Cantor sets and transversality of semigroups. **50** #7040
- s-Gill, Rajinder Jeet** See Dumir, Vishwa Chander, **55** #7931
- a, Liliana Elena** A simple proof of a theorem of Steinitz. (Romanian. French summary) **48** #2122
- ov, V. A.** Approximation of real numbers according to Dirichlet. (Russian) **57** #5912
- Rational approximations of real numbers. (Russian) **57** #16214
- onija, P. G.** The set of values of a certain functional. (Russian. Georgian summary) **48** #10991
- ov, S. V.** The greatest prime factor of a polynomial. (Russian) **48** #6012
- er, M.** See Betke, U.; et al., **51** #3064
- er, Kurt** A theorem on Diophantine approximations. **54** #12667
- er, E. A.** See Eggan, L. C., **47** #8442
- otte, Maurice** Une généralisation d'un théorème de Cugiani-Mahler. **47** #1751
- A note on linear recursive sequences. **52** #5581
- oescu, Neculai** Relations d'équivalence et topologies associées aux meilleures approximations asymétriques. (Romanian summary) **48** #8398
- erreiter, Harald** The distribution of Farey points. **48** #10992
- ood, Charles F.** The diophantine approximation of certain continued fractions. **46** #7174
- rhagen, T.** See Betke, U.; et al., **51** #3064
- ad, Krishna Chandra** See Prasad, Manoranjan, **48** #2082
- ad, Manoranjan** (with Prasad, Krishna Chandra) A note on diophantine approximation. **48** #2082
- midt, Asmus L.** On the approximation of quaternions. **51** #8040
- neider, Theodor** Über rationale Stellen, an denen eine algebraische Funktion rationale Werte annimmt. **51** #366
- ge, H. G.** (with Straus, Ernst G.) PV-numbers and sets of multiplicity. **47** #8452
- wart, C. L.** The greatest prime factor of $a^n - b^n$. **53** #2844
- us, Ernst G.** See Senge, H. G., **47** #8452
- a, Mihai** The study of the equation $M(\alpha) = n$ for $n > 3$. A generalization of Perron's theorem. (Romanian. French summary) **47** #6617
- s, Jörg M.** See Betke, U., **47** #1749
- ey, R. T.** Restricted Diophantine approximation. **58** #532

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- ham, Ronald L.** Covering the positive integers by disjoint sets of the form $\{[na + \beta]: n = 1, 2, \dots\}$. (**48** #3911)
- alevskaja, È. I.** Metric theorems on the approximation of zero by a linear combination of integer-valued polynomials. (Russian) (**49** #7231)
- anson, Melvyn B.** An exponential congruence of Mahler. (**46** #133)
- ger, Georg Johann** Über die Lösbarkeit von Gleichungssystemen durch Liouville-Zahlen. (**51** #5509)
- neider, Theodor** Rationale Punkte über einer algebraischen Kurve. (**53** #5493)
- warz, Wolfgang** Liouville-Zahlen und der Satz von Baire. (**56** #8504)

10F10 Simultaneous approximation

- Adams, William W.** Asymptotic simultaneous diophantine approximations. **50** #12925
- Baker, R. C.** Dirichlet's theorem on Diophantine approximation. **58** #5535
- Bernik, V. I.** Asymptotic behavior of the number of solutions of certain systems of diophantine inequalities. (Russian) **46** #140
- Bombieri, Enrico** Simultaneous approximations of algebraic numbers [following W. M. Schmidt] **54** #2597
- Borosh, Itshak** (with Fraenkel, Aviezri S.) A generalization of Jarník's theorem on Diophantine approximations. **46** #7175
- Cook, Roger J.** On the fractional parts of a set of points. **48** #8399
- On the fractional parts of a set of points. III. **51** #3065
- Cusick, T. W.** Diophantine approximation of linear forms over an algebraic number field. **52** #13653
- Simultaneous diophantine approximation of rational numbers. **47** #1752
- Formulas for some Diophantine approximation constants. **47** #142
- Formulas for some Diophantine approximation constants. II. **50** #7041
- The two-dimensional Diophantine approximation constant. **50** #7042
- Dirichlet's Diophantine approximation theorem. **58** #21954
- Dances, S.** (with Turán, Pál) Investigations in the powersum theory. II. **50** #4501
- (with Turán, Pál) Investigations in the powersum theory. I. **50** #4500
- Dubois, Eugène** (with Paysant Le Roux, Roger) Approximations simultanées dans un corps de séries formelles. **46** #8979
- Duggal, Meenakshi** See Luthar, Indar S., **55** #274
- Fraenkel, Aviezri S.** See Borosh, Itshak, **46** #7175
- Gajraj, J.** Simultaneous approximation to certain polynomials. **55** #10397
- Galockin, A. I.** Improving the estimates of certain linear forms. (Russian) **54** #12668
- Hamov, G. G.** The simultaneous approximation of algebraic numbers by algebraic numbers. (Russian) **45** #5086
- Hua, Luo Geng** (with Wang, Yuan) A note on simultaneous diophantine approximations to algebraic integers. **56** #11911
- Kaindl, Georg** Simultane Diophantische Approximationen. **58** #16537
- Kanold, Hans-Joachim** Über einige elementare Abschätzungen von e . **48** #242
- Karimov, B.** A certain estimate of the solutions of simultaneous Diophantine approximations. (Russian. Uzbek summary) **48** #243
- Kogonija, P. G.** Generalized Lagrange spectra. (Russian. Georgian summary) **48** #10993 (EA 49)
- Kovalevskaja, È. I.** "Hyperbolic" Diophantine approximations on analytic varieties. (Russian) **51** #8041
- Diophantine approximations with quadratic polynomials. II. (Russian) **58** #10765
- Liu, Ming Chit** Simultaneous approximation of two additive forms. **48** #10994
- Simultaneous approximation of additive forms. **51** #3066
- Loxton, J. H.** (with Van der Poorten, Alfred J.) A note on simultaneous polynomial approximation of exponential functions. **50** #7043
- Lozach, Mireille** Approximations rationnelles simultanées de réels et de p -adiques quadratiques. (English summary) **55** #7932
- Luthar, Indar S.** (with Duggal, Meenakshi) Homogeneous approximation in completions of A -fields of non-zero characteristic. **55** #274
- Mack, John M.** Simultaneous Diophantine approximation. **57** #12411
- Osgood, Charles F.** On the simultaneous diophantine approximation of values of certain algebraic functions. **46** #1715
- On the simultaneous diophantine approximation of values of certain hypergeometric and algebraic functions. **49** #2567
- The simultaneous diophantine approximation of values of functions satisfying certain n variable q -difference equations. **51** #3067
- Paysant Le Roux, Roger** See Dubois, Eugène, **46** #8979
- Ratliff, Michael** The Thue-Siegel-Roth-Schmidt theorem for algebraic functions. **57** #12412
- Schark, Rainer** (with Wills, Jörg M.) Asymptotisches Verhalten einer diophantischen Approximations-Funktion. **47** #3322
- Eine diophantische Approximations-Funktion. **51** #3068
- Schlickewei, Hans Peter** On the fractional parts of the sum of powers of rational numbers. **52** #13654
- Die p -adische Verallgemeinerung des Satzes von Thue-Siegel-Roth-Schmidt. **54** #10158
- Inequalities for decomposable forms. **56** #8499
- Schmidt, Wolfgang M.** Linear forms with algebraic coefficients. I. **46** #7176
- Simultaneous approximation to algebraic numbers by algebraic numbers in a given number field. **52** #8044
- Simultaneous approximation to algebraic numbers by elements of a number field. **51** #367
- Two questions in Diophantine approximation. **55** #2772
- ★Small fractional parts of polynomials. **56** #15568
- Shorey, T. N.** On gaps between numbers with a large prime factor. II. **49** #8941
- Sprindžuk, V. G.** The structure of numbers representable by binary forms. (Russian) **49** #4929
- Srinivasan, Seshadri** On algebraic approximations to $2^{\pi^k}(k = 1, 2, 3, \dots)$. **54** #245
- Sweet, Melvin M.** A theorem in diophantine approximations. **49** #2568
- Takeuchi, Mamoru** On a theorem of Schmidt. **55** #2773
- A note on Dyson's theorem. **51** #8042
- Tijdeman, Robert** See Van der Poorten, Alfred J., **52** #292
- Turán, Pál** See Dances, S., **50** #4500 and Dances, S., **50** #4501
- Van der Poorten, Alfred J.** Zéros communs de plusieurs polynômes exponentielles. (French) **58** #27814
- (with Tijdeman, Robert) On common zeros of exponential polynomials. **52** #292
- See also Loxton, J. H., **50** #7043
- Vehmanen, Lasse** On linear forms with algebraic coefficients. **53** #13125
- Waldschmidt, Michel** Simultaneous approximation of numbers connected with the exponential function. **58** #21955

Wang, Yuan *See* Hua, Luo Geng, 56 #11911

Wills, Jörg M. Zur simultanen diophantischen Approximation. 50 #12926

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Yajima, Akiyo On a property of quadratic Farey sequences. 51 #12719

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Bernik, V. I. Asymptotic behavior of the number of solutions of certain systems of inequalities in the theory of Diophantine approximations of dependent variables. (Russian) (49 #2632)

Bijlsma, A. On the simultaneous approximation of a , b and a^b . (56 #8502)

Bundschuh, Peter Quelques résultats sur les approximations diophantiennes. (53 #7957)

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- (with Ding, Xia Xi) Corrigendum to the paper: “A mean value theorem” (Acta Math. Sinica **18** (1975), no. 4, 254–262). (Chinese) **58** #27860
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- Wolke, Dieter** Über das summatorische Verhalten zahlentheoretischer Funktionen. (**46** #3465)
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- Elliott, Peter** On the least pair of consecutive quadratic non-residues (mod p). **52** #10633
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Fainleib, A. S. Numbers that are relatively prime to the values of an additive function. (Russian) **(57** #5928)

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Balasubramanian, R. An improvement on a theorem of Titchmarsh on the mean square of $|\zeta(\frac{1}{2} + it)|$. **(57** #16223)

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Pulatova, M. I. On a class of orthogonal systems of arithmetical character. **(53** #8873)

Schinzel, Andrzej On the number of irreducible factors of a polynomial. **(55** #7989)

Šušbaev, S. Š. The Rankin-Sobolev problem on extrema of Epstein's zeta function. The origin of the ray of extremality of the principal perfect form. (Russian. Uzbek summary) **(57** #16213)

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Karacuba, A. A. ★Основы аналитической теории чисел. (Russian) [Principles of analytic number theory] **(55** #12653)

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10J05 Sums of squares

Bovey, John A note on Waring's problem in p -fields. **58** #21982

A new upper bound for Waring's problem (mod p). **58** #21983

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53 #10745

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Chen, Jing Run An estimate for $g(4)$ in Waring's problem. (Chinese) **56** #11938

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On the intervals between numbers that are sums of two squares. II. **48** #3904

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Isralov, M. I. The generalized Waring problem with an increasing number of polynomial terms. (Russian) **51** #12755

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Kreidl, Tadeusz On representations of natural numbers as sums of two squares. **55** #295

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Dani, Ernest On Hermitian continued fractions. (Romanian. German summary) **(57** #16190)

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Moser, Claude Représentation de -1 comme somme de carrés dans un corps cyclotomique quelconque. **(47** #4970)

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- Gazeau, J. P. Une identité du binôme et les représentations linéaires finies de $M_p(K)$ et $GL(p, K)$. (58 #915)
- Gogišvili, G. P. A relation between the number of representation of numbers by quadratic forms and the corresponding singular series. (Russian) (57 #5901)
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- Dressler, Konrad Nichtalgebraische Homologieklassen rationaler Flächen. 47 #8553
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10J20 Analytic work on partitions [See also 10A45.]

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- Robertson, M. M.** Partitions with congruence conditions. 53 #7987
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- Toffin, Philippe** Problème de Waring-Goldbach pour la fonction $f(x) = x^c$ lorsque $c > 12$, c non entier. 51 #3096
- Turán, Pál** On a property of partitions. 51 #399
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- Veršik, A. M.** (with Kerov, S. V.) Asymptotic behavior of the Plancherel measure of the symmetric group and the limit form of Young tableaux. (Russian) 58 #562
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- Wright, E. M.** Stacks. III. 45 #8623
- Zuparov, T. M.** The Waring problem with an increasing number of terms. (Russian) 53 #2875
- (with Ismatullaev, Šo. A.) An additive problem with an increasing number of prime summands. (Russian. Lithuanian and English summaries) 53 #5517

Secondary classifications:

- Allatt, P.** (with Slater, J. B.) Congruences on some special modular forms. (58 #10741)
- Andrews, George E.** The use of computers in search of identities of the Rogers-Ramanujan type. (47 #4920)
- Partitions, q -series and the Lusztig-Macdonald-Wall conjectures. (56 #5307)
- Babu, Gutti Jogesh** See **Erdős, Paul**; et al., (53 #7974)
- Cheema, M. S.** (with Conway, W. E.) Numerical investigation of certain asymptotic results in the theory of partitions. (47 #3308)
- Conway, W. E.** See **Cheema, M. S.**, (47 #3308)
- Deshouillers, Jean-Marc** Quelques problèmes sur les bases d'entiers. (53 #331)
- Erdős, Paul** (with Babu, Gutti Jogesh; Ramachandra, K.) An asymptotic formula in additive number theory. (53 #7974)
- Freitag, Artur** Zur Abschätzung der Partitionsfunktion $p(n)$ mit elementaren Mitteln. (English summary) (56 #15551)
- Ismatullaev, Šo. A.** An additive problem with a rapidly increasing function. (Russian. Uzbek summary) (50 #7024)
- Kerawala, S. M.** Two tables of arithmetic functions associated with the partition function. (49 #4955)
- Kløve, Torleiv** On a class of partition congruences. (55 #7921)
- Lehmer, Derrick Henry** Some structural aspects of the partitions of an integer. (53 #5462)
- LeVan, Marijo O.** Some q -functions and their related partition functions. I. (49 #4956)
- Porubský, Štefan** On MacMahon's segmented numbers and related sequences. (58 #5575)
- Ramachandra, K.** See **Erdős, Paul**; et al., (53 #7974)
- Rødseth, Øystein J.** Dissections of the generating functions of $q(n)$ and $q_0(n)$. (55 #7922)
- Congruence properties of the partition functions $q(n)$ and $q_0(n)$. (55 #7923)
- Slater, J. B.** See **Allatt, P.**, (58 #10741)
- Turán, Pál** Combinatorics, partitions, group theory. (Italian summary) (58 #21978)
- Vaughan, Robert-C.** Diophantine approximation by prime numbers. III. (53 #13134)

10J25 Lattice points in large regions

- Abiljalimov, S. B.** A short proof of a theorem on lattice points. (Russian) 58 #21992
- Ajtai, M.** (with Szemerédi, Endre) Sets of lattice points that form no squares. 51 #5534
- Babaev, G.** (with Babaeva, R.) Distribution of integral points in a sectorial domain of a cone. (Russian. Tajiki summary) 49 #4963
- Babaeva, R.** Integral points in certain regions of a cone. (Russian. Tajiki summary) 51 #3097
- See also **Babaev, G.**, 49 #4963
- Baltes, Heinrich P.** (with Draxl, Peter Karl Josef; Hilf, Eberhard R.) Quadratsummen und gewisse Randwertprobleme der mathematischen Physik. 49 #8950 (EA 50)
- Beukers, F.** The lattice-points of n -dimensional tetrahedra. 52 #5605
- Bokowski, Jürgen** ★Obere Schranken zur Gitterpunktszahl konvexer Körper. 56 #8517
- Cahn, Robert S.** Lattice sums of homogeneous functions. 55 #7963
- Chaix, Henri** Démonstration élémentaire d'un théorème de van der Corput. 47 #170
- Sur les points frontières des compacts strictement convexes de \mathbf{R}^2 appartenant à un réseau. (English summary) 56 #11939
- Chakerian, Gulbank D.** (with Groemer, Helmut) On convex bodies containing a given number of lattice points. 56 #5474
- Colin de Verdière, Yves** Nombre de points entiers dans une famille homothétique de domaines de \mathbf{R} . 58 #563
- Diviš, Bohuslav** On lattice points with weight in high-dimensional ellipsoids. 53 #317
- (with Novák, Břetislav) On the lattice point theory of multidimensional ellipsoids. 49 #10652
- Lattice points on convex curves. 49 #10653
- On the lattice points on strictly convex surfaces. 54 #10173
- Lattice point theory in polyhedra. 57 #257
- Lattice point theory of irrational ellipsoids with an arbitrary center. 57 #5935
- Mean value estimates in lattice point theory. 58 #21993
- Draxl, Peter Karl Josef** See **Baltes, Heinrich P.**; et al., 49 #8950 (EA 50)
- Dressler, Alexander** See **Müller, Claus**, 45 #3347
- Ehrhart, Eugène** Dénombrants d'ellipses et séries de valeurs entières. (English summary) 54 #10174
- Freedon, Willi** Eine Verallgemeinerung der Hardy-Landauschen Identität. 57 #12434
- Über gewichtete Gitterpunktsummen in kreisförmigen Bereichen. 58 #564
- Fricker, François** Über den Gitterrest mehrdimensionaler Kugeln. 47 #171
- Über den Gitterrest mehrdimensionaler Kugeln. II. 48 #6046
- Die Geschichte des Kreisproblems. 51 #400
- Gafurov, N.** The distribution of lattice points on a hyperbola. (Russian) 58 #27868
- Graham, Ronald L.** (with Rothschild, B. L.; Straus, Ernst G.) Are there $n+2$ points in E^n with odd integral distances? 48 #11024
- Greger, Karl** The visibility of the plane integral lattice, and a theorem of Cesàro. (Swedish. English summary) 50 #7066
- Groemer, Helmut** See **Chakerian, Gulbank D.**, 56 #5474
- Günther, Paul** Eine Funktionalgleichung für den Gitterrest. 58 #21994
- Hilf, Eberhard R.** See **Baltes, Heinrich P.**; et al., 49 #8950 (EA 50)
- Ismolov, D.** Distribution of integral points on an elliptic cone of order two. (Russian) 54 #5152

- Lattice points in three-dimensional domains, and their applications to cones. (Russian. Tajiki summary) **50** #2103
- Krätzel, Ekkehard Mittlere Darstellungen natürlicher Zahlen als Summe von n k -ten Potenzen. **48** #262 (EA 48)
- Maier, Wilhelm Gitterpunkte auf Kugeln im R_2 . **46** #148
- Müller, Claus (with Dressler, Alexander) Über eine gewichtete Mittelung der Gitterpunkte in der Ebene. **45** #3347
- Novák, Břetislav On a certain sum in number theory. III. **48** #8420
Mittelwertsätze der Gitterpunktlehre. III. **47** #8468
Lattice points in moredimensional ellipsoids. (Russian summary) **49** #7226
On a certain sum in number theory. II. **55** #7964
Integral points in multidimensional ellipsoids. (Russian) **53** #10749
Lattice points in high dimensional ellipsoids. **57** #16235
New proofs of a theorem of Edmund Landau. **54** #7413
On lattice points in multidimensional ellipsoids: problem of centers. **53** #10750
See also Diviš, Bohuslav, **49** #10652
- Popov, V. N. The number of lattice points under a parabola. (Russian) **53** #316
- Postnikov, A. G. The asymptotic properties of the eigenfunctions of the Laplace operator. (Russian) **52** #3096
- Potockii, V. V. Estimation of the trigonometric sum connected with the number of lattice points in a disc. (Russian) **55** #10410
- Randol, Burton A group-theoretic lattice-point problem. **50** #258
- Rothschild, B. L. See Graham, Ronald L.; et al., **48** #11024
- Schierwagen, Andreas Über ein Teilerproblem. **54** #2609
- Sheng, T. K. Lines determined by lattice points in R^n . **58** #27869a
Lines containing q lattice points in $V \subset R^n$. **58** #27869b
Lines determined by lattice points in non-convex regions. **58** #27869c
- Straus, Ernst G. See Graham, Ronald L.; et al., **48** #11024
- Swinnerton-Dyer, H. P. F. The number of lattice points on a convex curve. **49** #2626
- Szemerédi, Endre See Ajtai, M., **51** #5534
- Tasbaev, V. H. An additive problem. **58** #27870
- Val'fís, Anna The number of integer points in a domain on the plane. (Russian) **56** #11940
- Venugopal Rao, V. Estimates for averages involving lattice points of rational indefinite quadratic forms. **52** #3097 (EA 53)
- All-Union Conference:
Number Theory See Novák, Břetislav, **53** #10749

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- Baltes, H. P. (with Steinle, B.) Eigenfrequency density oscillations and Walfisz lattice sums. (**57** #14920)
- Bérard, Pierre H. On the number of lattice points in some domains. (**57** #10738)
- Bokowski, Jürgen Gitterpunktsanzahl und Parallelkörpervolumen von Eikörpern. (English summary) (**51** #363)
- Hadwiger, Hugo (with Wills, Jörg M.) Neuere Studien über Gitterpolygone. (**52** #15244)
- Hammer, Joseph ★Unsolved problems concerning lattice points. (**56** #16515)
- Malyšev, A. V. Yu. V. Linnik's ergodic method in number theory. (**51** #8032)
- Miyawaki, Isao On the number of the lattice points in the area $0 < x < n, 0 < y < ax^k/n$. (**52** #13729)
- Roth, K. F. Developments in Heilbronn's triangle problem. (**55** #2771)
- Sheng, T. K. Lines determined by lattice points in R^2 . (**57** #12405)
- Steinle, B. See Baltes, H. P., (**57** #14920)
- Uchiyama, Saburō A remark on a previous paper by Bredihin and Linnik. (**47** #4955)
- Wills, Jörg M. See Hadwiger, Hugo, (**52** #15244)

10J99 None of the above, but in this section

- Brenner, Joel (with de Pillis, John) Fermat's equation $A^p + B^p = C^p$ for matrices of integers. **45** #5099
- Dancs, S. (with Turán, Pál) Investigations in the powersum theory. III. **51** #12759
- (with Turán, Pál) Investigation in the power sum theory. IV. **51** #12760
- Djoković, Dragomir Ž. Finite sets of integers with equal power sums. **47** #172
- Erdős, Paul (with Newman, Donald J.) Bases for sets of integers. **56** #11941
- Freedman, A. R. On the additivity theorem for n -dimensional asymptotic density. **50** #7067
- Freiman, G. A. ★Начала структурной теории сложения множеств. (Russian) [Elements of a structural theory of set addition] **50** #12943
★Foundations of a structural theory of set addition. **50** #12944
Introduction to Part II: The structural theory of set addition. (Russian) **55** #7965
(with Judin, A. A.) The general principles of additive number theory. (Russian) **55** #7966
Groups and the inverse problems of additive number theory. (Russian) **55** #7968
See also Moskvín, D. A.; et al., **55** #7967
- Hayashi, Elmer K. An elementary method for estimating error terms in additive number theory. **51** #12761
- Iványi, Antal (with Kátai, Imre) On monotonic additive functions. **47** #173
- Judin, A. A. See Freiman, G. A., **55** #7966 and Moskvín, D. A.; et al., **55** #7967
- Kátai, Imre See Iványi, Antal, **47** #173
- Mauclaire, Jean-Loup Quelques résultats sur les fonctions additives à deux variables. **45** #1859
- Moskvín, D. A. (with Freiman, G. A.; Judin, A. A.) Inverse problems of additive number theory and local limit theorems for lattice random variables. (Russian) **55** #7967
- Newman, Donald J. See Erdős, Paul, **56** #11941
- de Pillis, John See Brenner, Joel, **45** #5099
- Schaal, Werner Der Satz von Erdős und Fuchs in reell-quadratischen Zahlkörpern. **55** #7969
- Turán, Pál See Dancs, S., **51** #12759 and Dancs, S., **51** #12760

- Zavulunova, O. R. The number of solutions of the generalized Hardy-Littlewood equation. (Russian. Tajiki summary) **50** #2104

Secondary classifications:

- Berndt, Bruce C. The Voronoï summation formula. (**50** #4518)
- Car, Mireille Le problème de Waring pour l'anneau des polynômes sur un corps fini. (**53** #10745)
- Daily, Mary Lou (with Livingston, M. L.) A note on the sum of sets of m -tuples. (**58** #571)
- Heppner, Ernst Über die Summe der Ziffern natürlicher Zahlen. (**58** #21931)
- Ismatullaev, Šo. A. Uniform limit theorems and their application to additive problems with an increasing number of terms. (Russian) (**52** #3050)
A multidimensional additive problem with an increasing number of summands. (Russian. Uzbek summary) (**52** #13631)
A two-dimensional additive problem with an increasing number of summands. (Russian) (**52** #3051)
See also Zuparov, T. M., (**51** #12698)
- Israilov, M. I. Additive problems with an increasing number of polynomial terms. (Russian. Uzbek summary) (**56** #8492)
- Kubilius, J. The method of generating Dirichlet series in the theory of the distribution of additive arithmetic functions. II. (Russian. Lithuanian and English summaries) (**47** #4951)
- Lee, R. A. Proving Kneser's theorem for finite groups by another e -transform. (**51** #195)
- Livingston, M. L. See Daily, Mary Lou, (**58** #571)
- Redmond, Don An asymptotic formula in the theory of numbers. II. (**58** #553)
- Zuparov, T. M. (with Ismatullaev, Šo. A.) On additive problems with an increasing number of terms. (Russian) (**51** #12698)

10Kxx Probabilistic theory; measure, dimension, etc.

- Kahnert, Dietmar Hausdorff-Masse von Summenmengen. II. **49** #3069b
- Philibert, Georges Généralisation de la formule de E. Wirsing concernant les fonctions multiplicatives positives. **50** #9819
- (Rauzy, Gérard) See Répartition modulo 1, **51** #12762
- Colloque:
Répartition Modulo 1 See Répartition modulo 1, **51** #12762
Répartition modulo 1 ★Répartition modulo 1. **51** #12762

Secondary classifications:

- Philipp, Walter ★Mixing sequences of random variables and probabilistic number theory. (**55** #10411)
- Postnikov, A. G. ★Введение в аналитическую теорию чисел. (Russian) [Introduction to analytic number theory] (**55** #7895)
- Šarapov, V. G. A certain class of number-theoretic endomorphisms of A. Rényi and V. A. Rohlin. (Russian) (**51** #13194)

10K05 Distribution modulo one

- Baba, Yoshikazu On certain problems of uniform distribution of real sequences. **55** #7970
- Baker, R. C. On a theorem of Erdős and Taylor. **47** #4960
A diophantine problem on groups. IV. **50** #7068
Some metrical theorems in strong uniform distribution. **50** #12945
Riemann sums and Lebesgue integrals. **53** #13150
- Bass, Jean Construction d'une suite complètement équirépartie modulo 1. **53** #10751
- Bauer, Walter Diskrepanz in separablen metrischen Räumen. **50** #7069
- Bedin, Jean-François (with Deutsch, Christian) Distribution uniforme modulo 1 d'une fonction arithmétique réelle, additive relativement à un support fondamental. **58** #565
- Bernik, V. I. An ergodic property of linearly independent polynomials. (Russian) **48** #8421
- Bésineau, Jean Indépendance statistique d'ensembles liés à la fonction "somme des chiffres". **52** #13694
Ensembles d'entiers à caractères presque périodiques et équirépartition. **53** #7988
- Binder, Christa Une remarque sur la caractérisation des fonctions R - μ -intégrables. **52** #10647
- Bruneau, Michel Irrégularité locale des fonctions et approximation sur le tore. **52** #13695
- Bundschuh, Peter Konvergenz unendlicher Reihen und Gleichverteilung mod 1. **58** #27871
- Carlson, David L. Good sequences of integers. **55** #296
- Chen, Goong A note on almost uniform distributions. **49** #2627
- Cigler, J. Well-distributed sequences. **51** #401
- Coquet, Jean Sur les fonctions q -multiplicatives pseudo-aléatoires. (English summary) **53** #5518
On the uniform distribution modulo one of some subsequences of polynomial sequences. **58** #21995
- Couot, Jacques Théorie ergodique de l'équirépartition. **53** #5519
- Daboussi, Hédi (with Mendès-France, Michel) Spectrum, almost-periodicity and equidistribution modulo 1. **51** #10266
- Delange, Hubert Quelques résultats nouveaux sur les fonctions additives. **53** #7989
On integral-valued additive functions. II. **49** #7227
- (Deshouillers, Jean-Marc) See Dress, François, **54** #7414
- Deutsch, Christian See Bedin, Jean-François, **58** #565
- Dixon, John D. Monotonic subsequences in random sequences. **52** #318
- Dowidar, A. F. A note on the generalized uniform distribution (mod 1). **46** #5269
On the generalized uniform distribution (mod 1). **49** #7228 (EA 50)

Dress, François Sur la répartition modulo M des suites polynômiales $[P(n)]$. (English) **54** #7414

(Dumont, J. M.) See Thomas, A., **51** #407

Dupain, Yves Répartition des sous-suites d'une suite donnée. **51** #402
Intervalles à restes majorés pour la suite $\{n\alpha\}$. **57** #3092
See also Thomas, A., **51** #10267

Elliott, Peter On the limiting distribution of additive functions (mod 1). **47** #1765

Erdős, Paul (with Hall, R. R.) Some distribution problems concerning the divisors of integers. **50** #7070

Fleischer, W. Über einen Satz von E. Hlawka. **51** #403

Galambos, János Uniformly distributed sequences mod 1 and Cantor's series representation. **55** #2818 (E **56** #15596)
Correction to my paper: "Uniformly distributed sequences mod 1 and Cantor's series representation" (Czechoslovak Math. J. **26**(101) (1976), no. 4, 636–641). **56** #15596

Gerl, Peter Relative Gleichverteilung in lokalkompakten Räumen. II. **46** #5270
Gleichverteilung auf Kugeln in R^n . **49** #8951

Grandet-Hugot, Marthe Quelques résultats concernant l'équirépartition dans l'anneau des adèles d'un corps de nombres algébriques. **55** #12674a (E **55** #12674b)
"Quelques résultats concernant l'équirépartition dans l'anneau des adèles d'un corps de nombres algébriques." Rectificatif (Bull. Sci. Math. (2) **99** (1975), no. 2, 91–111). **55** #12674b
Équirépartition dans les adèles. (English summary) **51** #8061
Étude de différents types d'équirépartition dans un anneau d'adèles. **56** #5475

Hall, R. R. See Erdős, Paul, **50** #7070

Hlawka, Edmund (with Mück, Rudolf) A transformation of equidistributed sequences. **56** #5476
(with Mück, Rudolf) Über eine Transformation von gleichverteilten Folgen. II. (English summary) **56** #11942
Ein metrisches Gegenstück zu einem Satz von W. A. Veech. **48** #263
Über eine Methode von E. Hecke in der Theorie der Gleichverteilung. **54** #5153
Zur Theorie der Gleichverteilung. I, II. **52** #8066
Zur quantitativen Theorie der Gleichverteilung. **54** #10175
Anwendung zahlentheoretischer Methoden auf Probleme der numerischen Mathematik. I. **54** #12696

Hodges, John H. A note on irregularities in distribution of sequences of integers. **47** #174

Hua, Luo Geng (with Wang, Yuan) On uniform distribution and numerical analysis. I. Number-theoretic method. **55** #12675a
(with Wang, Yuan) On uniform distribution and numerical analysis. Number-theoretic method. II, III. **55** #12675b

del Junco, Andrés (with Steele, J. Michael) Growth rates for monotone subsequences. **58** #10800

Kahane, Jean-Pierre Sur la distribution de certaines séries aléatoires. **50** #12946

Kemperman, J. H. B. Distributions modulo 1 of slowly changing sequences. **52** #8067

Kovalevskaja, È. I. The simultaneous distribution of the fractional parts of polynomials. (Russian) **52** #10648

Kuipers, Lauwerens On a general form of the Weyl criterion in the theory of asymptotic distribution. **54** #12697
(with Shiue, Jau Shyong) Remark on a paper by Duncan and Brown on the sequence of logarithms of certain recursive sequences. **48** #11025
A remark on asymptotic distribution in $GF[p^r, x]$. **50** #9824
(with Niederreiter, Harald) ★Uniform distribution of sequences. **54** #7415
(with Niederreiter, Harald) Asymptotic distribution mod m and independence of sequences of integers. I, II. **51** #404
(with Niederreiter, Harald; Shiue, Jau Shyong) Uniform distribution of sequences in the ring of Gaussian integers. **54** #2612
(with Shiue, Jau Shyong) Ein Kriterium für die C -Gleichverteilung mod 1. (English summary) **56** #292

László, V. (with Šalát, Tibor) The structure of some sequence spaces, and uniform distribution (mod 1). **58** #16573

LeVeque, William J. On the frequency of small fractional parts in certain real sequences. IV. **55** #7971

Lo, Siu Kwong (with Niederreiter, Harald) Banach-Buck measure, density, and uniform distribution in rings of algebraic integers. **53** #13151

Losert, Viktor Uniformly distributed sequences on compact, separable, non-metrizable groups. **57** #16236
Almost constant sequences of transformations. **57** #16237

Maurin, Jacques Suites déterministes à répartition et corrélations anormales. **52** #317 (E **52** #13696)
Erratum: "Suites déterministes à répartition et corrélations anormales" (C. R. Acad. Sci. Paris Sér. A **279** (1974), 625–628). **52** #13696

Maxones, W. (with Muthsam, Herbert; Rindler, Harald) Bemerkung zu einem Satz von E. Hlawka. **55** #2819

Meijer, H. G. (with Niederreiter, Harald) Équirépartition et théorie des nombres premiers. **52** #10649

Mendès-France, Michel Suites et sous-suites équiréparties modulo 1. **53** #319
Fonctions g -additives et les suites à spectre vide. **53** #318
Les suites additives et leur répartition (mod. 1). **52** #13697
See also Daboussi, Hédi, **51** #10266

Meyer, Yves Nombres transcendants et répartition modulo 1. **51** #3098

Miklavc, Adolf Elementary proofs of two theorems on the distribution of numbers $n\theta$ (mod 1). **47** #4962

Moskvin, D. A. The trajectories of ergodic endomorphisms of a two-dimensional torus that originate on a smooth curve. (Russian) **49** #2628

Mück, Rudolf See Hlawka, Edmund, **56** #5476 and Hlawka, Edmund, **56** #11942

Muhutdinov, R. H. A test for the nonuniform distribution of the fractional parts of the exponential function. (Russian. Uzbek summary) **52** #5606

Muthsam, Herbert See Maxones, W.; et al., **55** #2819

Nathanson, Melvyn B. Asymptotic distribution and asymptotic independence of

sequences of integers. **56** #11943

Niederreiter, Harald Distribution of sequences and induced orders. **51** #405
A distribution problem in finite sets. **50** #4515
Methods for estimating discrepancy. **50** #7071
Uniform distribution of lattice points. **52** #10650
(with Philipp, Walter) On a theorem of Erdős and Turán on uniform distribution. **52** #10651
On a class of sequences of lattice points. **46** #5271
Application of Diophantine approximations to numerical integration. **50** #9825
On the distribution of pseudo-random numbers generated by the linear congruential method. II. **56** #15597a
Rearrangement theorems for sequences. **52** #8068
Résultats nouveaux dans la théorie quantitative de l'équirépartition. **52** #10652
Indépendance de suites. **54** #10176
On a paper of Blum, Eisenberg, and Hahn concerning ergodic theory and the distribution of sequences in the Bohr group. **53** #320
(with Wills, Jörg M.) Diskrepanz und Distanz von Maßen bezüglich konvexer und Jordanscher Mengen. **51** #12763 (EA **52**) (E **53** #7996)
Statistical independence of linear congruential pseudo-random numbers. **54** #7416
On the distribution of pseudo-random numbers generated by the linear congruential method. III. **56** #15597b
Pseudo-random numbers and optimal coefficients. **57** #16238
See also Kuipers, Lauwerens, **51** #404; Meijer, H. G., **52** #10649; Lo, Siu Kwong, **53** #13151; Kuipers, Lauwerens; et al., **54** #2612 and Kuipers, Lauwerens, **54** #7415

Patterson, S. J. Diophantine approximation in Fuchsian groups. **58** #27872

Philipp, Walter Empirical distribution functions and uniform distribution mod 1. **50** #7072
See also Niederreiter, Harald, **52** #10651

Postnikova, L. P. A quantitative form of Borel's problem. (Russian) **46** #1736

Proinov, P. D. The square deviation of symmetric lattices. (Russian. English summary) **54** #5154

Rauzy, Gérard Croissance et répartition modulo 1. **53** #5520
Fonctions entières et répartition modulo 1. **47** #6638
Fonctions entières et répartition modulo un. II. **49** #7229
Équirépartition et entropie. **52** #13698
★Propriétés statistiques de suites arithmétiques. **53** #13152
Répartition modulo 1. **56** #2947
Répartition de suites et équations fonctionnelles associées. (English summary) **57** #12435

Rhin, Georges Répartition modulo 1 dans un corps de séries formelles sur un corps fini. **50** #2105
Équirépartition modulo 1 des suites lacunaires. **52** #13699

Rindler, Harald Ein Problem aus der Theorie der Gleichverteilung. II. **50** #2107
Gleichverteilte Ketten. **52** #10653
Ein Problem aus der Theorie der Gleichverteilung. I. **50** #2106
A remark on Weyl's criterion on uniformly distributed sequences. **51** #12764
(with Schoißengeier, Johannes) Gleichverteilte Folgen und differenzierbare Funktionen. (English summary) **58** #10801
See also Maxones, W.; et al., **55** #2819

Rosenblatt, Joseph Max Uniform distribution in compact groups. **55** #2820

Saffari, Bahman (with Vaughan, Robert-C.) On the fractional parts of x/n and related sequences. I. (French summary) **56** #2948

Šalát, Tibor Bemerkung über die Verteilung von Ziffern in Cantorsche Reihen. **47** #8469
See also László, V., **58** #16573

Schmitt, Peter Lineare Gleichverteilung. (English summary) **51** #406
Linear uniform distribution. (French summary) **52** #13700

Schoißengeier, Johannes Gleichmäßige Gleichverteilung in lokalkompakten Räumen. **52** #10654
Gleichmäßige Gleichverteilung in lokalkompakten Räumen. **55** #2821
See also Rindler, Harald, **58** #10801

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Sobol', I. M. Best uniformly distributed sequences. (Russian) **57** #258

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Baker, R. C. Dyadic methods in the measure theory of numbers. (**54** #5158)

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- Barsky, Daniel** Limites simples de fonctions continues p -adiques. (55 #8009)
- Bésineau, Jean** Presque périodicité et sous-suites. (49 #2643)
- Blum, Julius R.** (with Eisenberg, Bennett; Hahn, Liang Shin) Ergodic theory and the measure of sets in the Bohr group. (51 #10536)
- Bruneau, Michel** ★Variation totale d'une fonction. (52 #14190)
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Hirst, K. E. Continued fractions with sequences of partial quotients. (47 #143)

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Ito, Shunji (with Takahashi, Yōichirō) Markov subshifts and realization of β -expansions. (49 #10860)
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Kovalevskaia, È. I. The simultaneous distribution of the fractional parts of polynomials. (Russian) (52 #10648)

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- Anosov, D. V. The additive functional homology equation that is connected with an ergodic rotation of the circles. (Russian) (**50** #4887)
- Baker, R. C. A diophantine problem on groups. III. (**45** #2408)
- Durand, Alain Quatre problèmes de Mahler sur la fonction ordre d'un nombre transcendant. (**51** #373)
- Furstenberg, Harry Intersections of Cantor sets and transversality of semigroups. (**50** #7040)
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- Grandet-Hugot, Marthe P. V. éléments dans un corps de nombres algébriques. (**47** #181)
- del Junco, Andrés Stacking transformations and Diophantine approximation. (**54** #7750)
- Keynes, Harvey B. *See* Furstenberg, Harry; et al., (**47** #9588)
- Konjuhovskii, V. V. Certain metric properties of Engel's representation. (Russian) (**48** #6047)
- Méla, Jean-François Approximation diophantienne et ensembles lacunaires. (**58** #29782)
- Mel'ničuk, Ju. V. On the metric theory of simultaneous Diophantine approximations of p -adic numbers. (Russian. English summary) (**58** #10780)
- Schweiger, Fritz ★The metrical theory of Jacobi-Perron algorithm. (**49** #10654)
- Shapiro, Leonard *See* Furstenberg, Harry; et al., (**47** #9588)
- Veech, William A. Topological dynamics. (**57** #7558)
- Vervaat, Wim ★Success epochs in Bernoulli trials (with applications in number theory). (**48** #7331)
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Schweiger, Fritz Induzierte Masse bei zahlentheoretischen Transformationen. **45** #1865

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- Bedarev, A. S. A generalization of Esseen's inequality to discontinuous functions. (Russian. Uzbek summary) (55 #9208)
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- Bedin, Jean-François (with Deutsch, Christian) Distribution uniforme modulo 1 d'une fonction arithmétique réelle, additive relativement à un support fondamental. (58 #565)
- Billingsley, Patrick Prime numbers and Brownian motion. (49 #9883)
- Delange, Hubert Quelques résultats nouveaux sur les fonctions additives. (53 #7989)
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- Deutsch, Christian See Bedin, Jean-François, (58 #565)
- Dubovik, G. F. Distribution of additive functions with an estimate of the deviation. (Russian) (52 #305)
- Elliott, Peter On the distribution of $\arg L(s, \chi)$ in the half-plane $\sigma > \frac{1}{2}$. (48 #2090)
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- Erdős, Paul (with Hall, R. R.) Probabilistic methods in group theory. II. (58 #10791)
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- Kubilius, J. The method of generating Dirichlet series in the theory of the distribution of additive arithmetic functions. II. (Russian. Lithuanian and English summaries) (47 #4951)
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- Maxones, W. (with Richards, Ian; Rindler, Harald; Schoißengeier, Johannes) Ein metrisches Ergebnis über die Diskrepanz von Folgen. 58 #22002
- Mück, Rudolf (with Philipp, Walter) Distances of probability measures and uniform distribution mod 1. 51 #5539
- Niederreiter, Harald Discrepancy and convex programming. 52 #10658
Metric theorems on the distribution of sequences. 49 #2641
(with Philipp, Walter) Berry-Esseen bounds and a theorem of Erdős and Turán on uniform distribution mod 1. 49 #2642
- Philipp, Walter Limit theorems for lacunary series and uniform distribution mod 1. 52 #325
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- Reversat, Marc Sur les discrèpances. 53 #327
- Richards, Ian See Maxones, W.; et al., 58 #22002
- Rindler, Harald See Maxones, W.; et al., 58 #22002
- Roth, K. F. On irregularities of distribution. II. 57 #260
- Schmidt, Wolfgang M. Irregularities of distribution. VII. 47 #8474
Irregularities of distribution. VIII. 50 #12952
Irregularities of distribution. IX. 51 #12768
Irregularities of distribution. X. 58 #10803
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- Schoißengeier, Johannes Über die Diskrepanz gewisser Folgen Mod 1 mit Hilfe Diophantischer Approximation. 58 #10804
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- Stolarski, Kenneth B. Discrepancy and sums of distances between points of a metric space. 53 #2881
- Warmus, Mieczysław A supplementary note on the irregularities of distributions. 53 #13155
- White, Brian E. Mean-square discrepancies of the Hammersley and Zaremba sequences for arbitrary radix. 54 #5162
- Topics in number theory See Hlawka, Edmund, 55 #7980

10K25 Normal numbers

- Bernay, Michel La dimension de Hausdorff de l'ensemble des nombres r -déterministes. 51 #8064
- Chang, Kuo Tsai A note on normal numbers. 56 #2949
- Dress, François Intersections d'ensembles normaux. 50 #12949
- Dutta, Mahadev (with Mukherjee, Subir Kumar) On some notions associated with normality of numbers. 58 #16579
- Galambos, János A generalization of a theorem of Borel concerning the distribution of digits in dyadic expansions. 47 #1767
- Haber, Seymour Sequences of numbers that are approximately completely equidistributed. 48 #2102
- Ito, Shunji (with Shiokawa, Iekata) A construction of β -normal sequences. 50 #9829
- Jager, H. On decimal expansions. 50 #12950
- Kamae, Teturo (with Weiss, Benjamin) Normal numbers and selection rules. 53 #5522
- Long, Calvin T. (with Webb, William A.) Normality in $GF(q, x)$. (Italian summary) 52 #13709
- Martinelli, F. J. Construction of generalized normal numbers. 58 #567
- Mendès-France, Michel Les ensembles de Bésineau. 54 #266
- Minuț, Petru Sequences of normal signs in the sense of Pascal. (Romanian. English summary) 48 #6051
- Mukherjee, Samir Kumar Information-theoretic technique in normal-numbers. 57 #16242
- Mukherjee, Subir Kumar See Dutta, Mahadev, 58 #16579
- Nagasaka, Kenji On Hausdorff dimension of non-normal sets. 48 #2103
La dimension de Hausdorff de certains ensembles dans $[0, 1]$. 58 #16580
- Olivier, Michel Fonctions g -additives et formule asymptotique pour la propriété $(n,$

Secondary classifications:

- Joris, Henri** Ω -Sätze für gewisse multiplikative arithmetische Funktionen. (50 #255)
- Kátai, Imre** A note on a paper of E. Hlawka. (48 #2404)
- Maisonneuve, Dominique** Recherche et utilisation des “bons treillis”. Programmation et résultats numériques. (English summary) (49 #8270)
- Moskvin, D. A.** The trajectories of ergodic endomorphisms of a two-dimensional torus \mathbb{T}^2 that originate on a smooth curve. (Russian) (49 #2628)
- Niederreiter, Harald** (with SchoiBengeier, Johannes) Almost periodic functions and uniform distribution mod 1. (55 #10412)
- Petersen, Karl Endel** (with Shapiro, Leonard) Induced flows. (48 #1200)
- Philipp, Walter** Empirical distribution functions and uniform distribution mod 1. (50 #7072)
- SchoiBengeier, Johannes** See **Niederreiter, Harald**, (55 #10412)
- Shapiro, Leonard** See **Petersen, Karl Endel**, (48 #1200)
- Zaremba, Stanisław K.** La méthode des “bons treillis” pour le calcul des intégrales multiples. (English summary) (49 #8271)
- Computing the isotropic discrepancy of point sets in two dimensions. (50 #7074)

10K35 Harmonic analysis and almost periodicity

- Allouche, Jean-Paul** Vibrations non bornées des tores plats. (English summary) 58 #22003
- Benedetto, John J.** Idelic pseudo-measures and Dirichlet series. 58 #27880
- Bésineau, Jean** Presque périodicité et sous-suites. 49 #2643
- Coquet, Jean** (with Mendès-France, Michel) Suites à spectre vide et suites pseudo-aléatoires. 55 #7981
- (with Kamae, Teturo; Mendès-France, Michel) Sur la mesure spectrale de certaines suites arithmétiques. (English summary) 57 #12439
- Daboussi, Hédi** Fonctions multiplicatives presque périodiques B. 51 #10274
- Delange, Hubert** Quelques résultats sur les fonctions multiplicatives. 52 #13710
- See also **Daboussi, Hédi**, 51 #10274
- Gramain, François** Fonctions presque périodiques (au sens de Bohr) et fonction zeta de Riemann. 53 #5523
- Spectre de certaines fonctions presque périodiques (au sens de Bohr). 53 #5524
- Nombres de Pisot et fonctions moyenne-périodiques. 52 #13711
- Solutions indéfiniment dérivables et solutions presque-périodiques d’une équation de convolution. 55 #7982
- Kamae, Teturo** See **Coquet, Jean**; et al., 57 #12439
- Mendès-France, Michel** See **Coquet, Jean**, 55 #7981 and **Coquet, Jean**; et al., 57 #12439
- Meyer, Yves** Special trigonometric series. 54 #2613
- Étude asymptotique des vibrations des sphères. 54 #267
- ★Trois problèmes sur les sommes trigonométriques. 57 #3096
- Adèles et séries trigonométriques spéciales. 54 #268
- Niederreiter, Harald** Well-distributed sequences with respect to systems of convex sets. 50 #9830
- (with Wills, Jörg M.) Berichtigung zu der Arbeit “Diskrepanz und Distanz von Massen bezüglich konvexer und Jordanscher Mengen” (Math. Z. 144 (1975), no. 2, 125–134). 53 #7996
- ..
- (with SchoiBengeier, Johannes) Almost periodic functions and uniform distribution mod 1. 55 #10412
- Rauzy, Gérard** Étude de quelques ensembles de fonctions définis par des propriétés de moyenne. 53 #328
- SchoiBengeier, Johannes** See **Niederreiter, Harald**, 55 #10412
- Waterman, Michael S.** Remarks on invariant measures for number theoretic transformations. 51 #415
- Wills, Jörg M.** See **Niederreiter, Harald**, 53 #7996

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- Arhipov, G. I.** A theorem on the mean value of the modulus of a multiple trigonometric sum. (Russian) (51 #1268)
- Ferru, Hélène** Caractérisation des nombres de Pisot complexes. Application géométrique. (58 #27889)
- Fiedler, Heinz** (with Jurkat, W. B.; Körner, Otto) On Salem’s problem for Fourier and Dirichlet series. (56 #16238)
- Frisch, Marc** Propriétés asymptotiques des vibrations des tores. (58 #23086)
- Gaiduk, Ju. M.** On the history of the theory of almost periodic functions. (Ukrainian) (58 #4893)
- Gramain, François** (with Meyer, Yves) Quelques fonctions moyenne-périodiques bornées. (52 #8780)
- Hejhal, Dennis A.** A remark on the Lindelöf hypothesis. (49 #2589)
- Judin, A. A.** See **Moskvin, D. A.**; et al., (46 #942)
- Jurkat, W. B.** On the Martens conjecture and related general Ω -theorems. (50 #4514 (EA 50))
- See also **Fiedler, Heinz**; et al., (56 #16238)
- Katznelson, Yitzhak** Suites aléatoires d’entiers. (53 #1176)
- Knopfmacher, John** Fourier analysis of arithmetical functions. (55 #7976)
- Körner, Otto** See **Fiedler, Heinz**; et al., (56 #16238)
- Méla, Jean-François** Problèmes de pseudo-périodicité. (51 #1266)
- Meyer, Yves** Nombres de Pisot et analyse harmonique. (58 #29852)
- Recent advances in spectral synthesis. (52 #14863)
- Harmonic analysis of mean-periodic functions. (58 #6936)
- See also **Gramain, François**, (52 #8780)
- Moskvin, D. A.** (with Postnikova, L. P.; Judin, A. A.) An arithmetical method of obtaining local limit theorems for lattice random variables. (Russian. English summary) (46 #942)
- Nikišin, E. M.** Dirichlet series with independent exponents, and some of their applications. (Russian) (54 #3286)
- Postnikova, L. P.** See **Moskvin, D. A.**; et al., (46 #942)

- Schreiber, Jean-Pierre** Une caractérisation des nombres de Pisot-Salem des corps p -adiques \mathbb{Q}_p . (58 #27881)
- Schwarz, Wolfgang** (with Spilker, Jürgen) Mean values and Ramanujan expansions of almost even arithmetical functions. (56 #5480)
- Spilker, Jürgen** See **Schwarz, Wolfgang**, (56 #5480)
- Ts’eng, Chün Hung** Poincaréreihen und Dirichletreihen mit Funktionalgleichung. (54 #7381)

10K40 Non-Archimedean theory

- Schreiber, Jean-Pierre** Approximations diophantiennes et problèmes additifs dans les groupes abéliens localement compacts. 51 #416

Secondary classifications:

- Monna, A. F.** ★Analyse non-archimédienne. (45 #4101)

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- Delange, Hubert** On the distribution modulo 1 of additive functions. 58 #10805
- Fainleib, A. S.** The density of certain number sets. (Russian. Uzbek summary) 46 #3477
- Haight, J. A.** A set of infinite measure whose ratio set does not contain a given sequence. 52 #13712
- Holgate, Philip** Saturation of random integer sequences. 47 #1768
- Iosifescu, Marius** On two remarkable examples of random systems with complete connections whose mappings are not distance diminishing. 54 #5163
- Knopfmacher, John** Arithmetical properties of finite rings and algebras, and analytic number theory. 47 #1769
- Misevicius, G.** Estimation of the remainder terms in limit theorems for a distribution of functions of the elements of continued fractions. (Russian. Lithuanian and English summaries) 45 #5102
- Asymptotic expansions for the distribution functions of sums of the form $\sum_{j=1}^n f(T^j t)$. (Russian) 47 #177
- Mosteller, F.** An empirical study of the distribution of primes and litters of primes. 56 #11948
- Nymann, J. E.** On the probability that k positive integers are relatively prime. 46 #3478
- On the probability that k positive integers are relatively prime. II. 53 #329
- Odoni, R. W. K.** The statistics of Weil’s trigonometric sums. 50 #2111
- Parnes, Milton N.** On the measure of measurable sets of integers. 48 #11031
- Porter, J. W.** The generalized Titchmarsh-Linnik divisor problem. 45 #5098
- Šalát, Tibor** On certain classes of sets of natural numbers. 47 #1770
- Schulze, Volker** Die Primteilerdichte von ganzzahligen Polynomen. II. 47 #178
- Schweiger, Fritz** (with Stradner, Wolfgang) Die Billingsleydimension von Mengen mit vorgeschriebenen Ziffern. 46 #5277
- Stradner, Wolfgang** See **Schweiger, Fritz**, 46 #5277
- Szemerédi, Endre** On a problem of W. Schmidt. 45 #8625

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- Azlarov, T. A.** See **Siraždinov, S. H.**; et al., (58 #16554)
- Benzinger, Leonora** Uniformly distributed sequences in locally compact groups. I, II. (48 #11388)
- Crook, J. F.** See **Good, Irving John**, (58 #27527)
- Dubrovin, V. T.** A multidimensional central limit theorem for number-theoretic endomorphisms. (Russian) (58 #13276)
- (with Moskvin, D. A.) Large deviations in a multidimensional central limit theorem for number-theoretic endomorphisms. (Russian) (58 #13277)
- Gerl, Peter** Gleichverteilung auf der Kugel. (47 #9682)
- Goguel, Johann Heinrich** Über Summen von zufälligen Folgen natürlicher Zahlen. (53 #333)
- Good, Irving John** (with Crook, J. F.) The enumeration of arrays and a generalization related to contingency tables. (58 #27527)
- Haight, J. A.** A set of infinite measure whose ratio set does not contain a given sequence. (53 #3236)
- Hartman, Philip** Infinite convolutions on locally compact Abelian groups and additive functions. (53 #4168)
- Isbell, John R.** (with Schanuel, Stephen H.) On the fractional parts of n/j , $j = o(n)$. (55 #2806)
- Ismatullaev, Šo. A.** A two-dimensional additive problem with an increasing number of summands. (Russian) (52 #3051)
- Kaufman, Robert P.** Perfect sets in some groups. (54 #518)
- Meijer, H. G.** On a distribution problem in finite sets. (47 #4806)
- Mignotte, Maurice** Démonstration probabiliste d’un lemme combinatoire pour l’approximation diophantienne des nombres algébriques. (50 #245)
- Montgomery, Hugh L.** The pair correlation of zeros of the zeta function. (49 #2590 (EA 49))
- Moskvin, D. A.** See **Dubrovin, V. T.**, (58 #13277)
- Neudecker, Werner** On twin “primes” and gaps between successive “primes” for the Hawkins random sieve. (50 #12938)
- Niederreiter, Harald** On the existence of uniformly distributed sequences in compact spaces. (47 #5208)
- Rieger, Georg Johann** Über Gleichverteilung bei Ford-Kreisen. (56 #5454)
- Sárközy, András** Some metric problems in the additive number theory. I. (58 #27883a)
- Some metric problems in the additive number theory. II. (58 #27883b)
- Schanuel, Stephen H.** See **Isbell, John R.**, (55 #2806)
- Schatte, Peter** Zur Verteilung der Mantisse in der Gleitkomma Darstellung einer Zufallsgröße. (English and Russian summaries) (50 #11396)
- Die H_∞ -Limitierbarkeit einer Klasse von Zahlenfolgen. (50 #11397)
- Schweiger, Fritz** $\tan x$ is ergodic. (57 #12822)
- Siraždinov, S. H.** (with Azlarov, T. A.; Zuparov, T. M.) ★Аддитивные задачи с

растущим числом слагаемых. (Russian) [Additive problems with an increasing number of terms] (58 #16554)

Stern, Frederick The Borel-Cantelli lemma and product-sum formulas. (58 #13306)

Zuparov, T. M. The Waring problem with an increasing number of terms. (Russian) (53 #2875)

See also Sirażdinov, S. H.; et al., (58 #16554)

10Lxx Sequences of integers

Erdős, Paul Extremal problems in number theory. 52 #13713

Problems and results in combinatorial number theory. 51 #10275

Mann, Henry B. ★Addition theorems: the addition theorems of group theory and number theory. 54 #12703

Secondary classifications:

Postnikov, A. G. ★Введение в аналитическую теорию чисел. (Russian) [Introduction to analytic number theory] (55 #7895)

Rauzy, Gérard ★Propriétés statistiques de suites arithmétiques. (53 #13152)

10L05 Addition of sequences

Abbott, H. L. (with Wang, Edward Tzu-Hsia) Sum-free sets of integers. 58 #5571

Bereková, Helena On difference sets of sets of non-negative integers. 47 #6641

Blazkevič, B. I. A certain dependence between sets that have the same number of elements and are contained in the set of natural numbers. (Russian. English summary) 50 #12953

Bovey, John (with Erdős, Paul; Niven, Ivan) Conditions for a zero sum modulo n . 52 #13714

Browkin, Jerzy (with Diviš, Bohuslav; Schinzel, Andrzej) Addition of sequences in general fields. 55 #5568

Castaldo, Pietro Due teoremi di aritmetica generale. (Not reviewed)

Chan, C. See Riddell, James, 57 #16244

Cherly, Jørgen Addition theorems in $F_q[x]$. 58 #22004a

Addition theorems in $F_q[x]$. 58 #22004b

Choi, S. L. G. On sequences not containing a large sum-free subsequence. 48 #3910

On irregularities of integer sequences. 51 #5541

(with Erdős, Paul; Szemerédi, Endre) Some additive and multiplicative problems in number theory. 51 #5540

On arithmetic progressions in sequences. 54 #5164

On sequences with a prescribed number of pairwise sums. 51 #5542

(with Komlós, János; Szemerédi, Endre) On sum-free subsequences. 51 #12769

Connolly, Dennis (with Williamson, J. H.) Difference-covers that are not k -sum-covers. II. 53 #330

Daily, Mary Lou A fundamental inequality for the sum of sets of m -tuples. 56 #295

Deshouillers, Jean-Marc Quelques problèmes sur les bases d'entiers (au sens additif). 53 #2882

Quelques problèmes sur les bases d'entiers. 53 #331

Théorie additive et répartition modulo 1. 58 #5572

(with Erdős, Paul; Sárközy, András) On additive bases. 54 #5165

(with Fouvry, Étienne) On additive bases. II. 56 #2951

Diderrich, George T. On Kneser's addition theorem in groups. 47 #179

An addition theorem for abelian groups of order pq . 50 #12954

Diviš, Bohuslav See Browkin, Jerzy; et al., 55 #5568

Erdős, Paul (with Nathanson, Melvyn B.) Maximal asymptotic nonbases. 50 #9831

(with Nathanson, Melvyn B.) Oscillations of bases for the natural numbers. 52 #5612

(with Nathanson, Melvyn B.) Sets of natural numbers with no minimal

asymptotic bases. 58 #5573

See also Choi, S. L. G.; et al., 51 #5540; Bovey, John; et al., 52 #13714 and Deshouillers, Jean-Marc; et al., 54 #5165

Fouvry, Étienne Construction d'une suite d'entiers ayant certaines propriétés additives. 57 #261

See also Deshouillers, Jean-Marc, 56 #2951

Fraenkel, Aviezri S. Further characterizations and properties of exactly covering congruences. 51 #10276

Complementary systems of integers. 55 #2825

Fredman, Michael L. Some arithmetical packing problems. 52 #326

Fredricksen, Harold Five sum-free sets. 52 #13715

Golay, Marcel J. E. Notes on the representation of $1, 2, \dots, n$ by differences. 45 #6784

Gupta, Hansraj Some sequences with distinct sums. 57 #12440

Hahn, Hwa S. A note on de Bruijn's number system. 48 #264

Hämmerer, Norbert (with Hofmeister, Gerd) Zu einer Vermutung von Rohrbach. 54 #10181

Hansen, Rodney T. A characterization of complementing pairs by distance sets. 52 #8074

Härtter, Erich Rekursiv definierte Mengenfolgen. 51 #417

Hennefeld, Julien O. Asymptotic nonbases which are not subsets of maximal asymptotic nonbases. 58 #22005

Hofmeister, Gerd See Hämmerer, Norbert, 54 #10181

Israilov, M. I. The number of solutions of a certain inhomogeneous Diophantine equation. (Russian. Uzbek summary) 47 #4965

Ivanov, N. N. (with Ševčenko, V. N.) The structure of a finitely generated semilattice. (Russian) 52 #8075

Jackson, T. H. (with Rehman, Fazal) Note on difference-covers that are not k -sum-covers. 50 #9832

Kalecki, M. On an inequality in the general additive theory of numbers. 46 #8996

Komlós, János See Choi, S. L. G.; et al., 51 #12769

Lam, Clement Wing Hong A generalization of cyclic difference sets. I, II. 52 #327

Cyclotomy and addition sets. 54 #10182

Meijer, H. G. On the sum of consecutive elements from a sequence. 50 #2112

Mrose, Arnulf Eine untere Schranke für die Reichweite von Extremalbasen dritter Ordnung. 47 #6643

Ein rekursives Konstruktionsverfahren für Abschnittsbasen. 51 #12770

Nathanson, Melvyn B. Complementing sets of n -tuples of integers. 45 #3355

Minimal bases and maximal nonbases in additive number theory. 50 #265

Oscillations of bases in number theory and combinatorics. 58 #16581

s -maximal nonbases of density zero. 55 #7983

See also Erdős, Paul, 50 #9831; Erdős, Paul, 52 #5612 and Erdős, Paul, 58 #5573

Niven, Ivan See Bovey, John; et al., 52 #13714

Oates-Williams, Sheila (with Street, Anne Penfold) On Conway's conjecture for integer sets. 47 #6642

Olson, John E. Sums of sets of group elements. 52 #3100

On a combinatorial problem of Erdős, Ginzburg, and Ziv. 53 #2883

Porubský, Štefan Covering systems and generating functions. 52 #328

On m times covering systems of congruences. 53 #2884

Queneau, Raymond Sur les suites s -additives. 46 #1741

Razen, Reinhard A. On the sum and the difference of finite sets of integers. 55 #2826

Rehman, Fazal See Jackson, T. H., 50 #9832

Riddell, James (with Chan, C.) Some extremal 2-bases. 57 #16244

Sárközy, András See Deshouillers, Jean-Marc; et al., 54 #5165

Schinzel, Andrzej See Browkin, Jerzy; et al., 55 #5568

Ševčenko, V. N. See Ivanov, N. N., 52 #8075

Silverman, Joseph H. Mean and variance for covering sets of congruences. 58 #10806

Spaltenstein, Nicolas Généralisations de certains théorèmes de Erdős-Rényi sur la théorie additive des nombres. 55 #10413

Street, Anne Penfold See Oates-Williams, Sheila, 47 #6642

Swenson, Carl Direct sum subset decompositions of \mathbb{Z} . 50 #9833

Szemerédi, Endre On sets of integers containing no k elements in arithmetic progression. 54 #10183

See also Choi, S. L. G.; et al., 51 #5540 and Choi, S. L. G.; et al., 51 #12769

Thurber, Edward G. On addition chains $l(mn) < l(n) - b$ and lower bounds for $c(r)$. 48 #8429

Vegh, Emanuel A note on addition chains. 51 #12771

Wang, Edward Tzu-Hsia See Abbott, H. L., 58 #5571

Warren, Richard H. Inequalities for the number of integers in the sum of sets of positive integers. 52 #5613

Weinstein, Gerald Some covering and packing results in number theory. 55 #7984

An algorithm for complements of finite sets of integers. 55 #7985

Williamson, J. H. See Connolly, Dennis, 53 #330

Wou, Y. F. Sums of sets in the Abelian group of type (5, 5). 53 #2885

Znám, Štefan On properties of systems of arithmetic sequences. 52 #329

Vector-covering systems of arithmetic sequences. 50 #4520

A simple characterization of disjoint covering systems. 51 #12772

On covering sets of residue classes. 56 #2952

Secondary classifications:

Cantor, David G. (with Gordon, Basil) Sequences of integers with missing differences. (51 #8066)

Erdős, Paul Problems and results on number theoretic properties of consecutive integers and related questions. (54 #10138)

(with Nathanson, Melvyn B.) Partitions of the natural numbers into infinitely oscillating bases and nonbases. (54 #226)

Gordon, Basil See Cantor, David G., (51 #8066)

Haralambis, Nicolas M. Sets of integers with missing differences. (56 #11949)

Kátai, Imre On additive representation of integers. (47 #8466)

Korec, Ivan (with Znám, Štefan) On disjoint covering of groups by their cosets. (Russian summary) (58 #5260)

Kotzig, Anton (with Turgeon, Jean M.) Regular perfect systems of difference sets. (57 #2939)

Nathanson, Melvyn B. See Erdős, Paul, (54 #226)

Neumann, B. H. Questions and examples on group covering. (52 #5809)

Olson, John E. (with White, Edward T.) Sums from a sequence of group elements. (57 #6161)

Orazov, M. Some applications of the Romanov-Erdős inequality. (Russian. Turkmen and English summaries) (58 #10728)

Pollard, J. M. A generalisation of the theorem of Cauchy and Davenport. (50 #6995)

Turgeon, Jean M. See Kotzig, Anton, (57 #2939)

White, Edward T. See Olson, John E., (57 #6161)

Woo, Norman On non-basic triples. (50 #9782)

Znám, Štefan See Korec, Ivan, (58 #5260)

10L10 Special sequences (density, etc.)

Abbott, H. L. (with Hanson, Denis) A problem of Schur and its generalizations. 47 #8475

(with Liu, A. C.; Riddell, James) On sets of integers not containing arithmetic progressions of prescribed length. 57 #12441

On a conjecture of Erdős and Straus on non-averaging sets of integers. 53 #10752 (EA 54)

Alsopach, Brian R. (with Brown, T. C.; Hell, Pavol) On the density of sets containing no k -element arithmetic progression of a certain kind. 54 #5166

Anderson, Ian (with Cohen, Stephen D.; Stothers, W. Wilson) Primitive polynomial subsequences. 51 #418

Bateman, Paul T. The Erdős-Fuchs theorem on the square of a power series. 58 #16582

Batut, Christian Suites récurrentes et densité. (English summary) 51 #10277

Bedin, Jean-François (with Deutsch, Christian) Sur la densité de certains ensembles de multiples. 47 #6644

- Béjani, Robert** Sur certaines suites présentant une faible discrédance à l'origine. (English summary) **57** #5941
- Beresin, May** (with Levine, Eugene; Lubell, David) On the coefficients of a generating series. **45** #211
- Billingsley, Patrick** On the distribution of large prime divisors. **49** #243
- Bludov, V. S.** (with Uberman, V. Ī.) A certain sequence of additively distinct numbers. (Russian. English summary insert) **53** #332
- Booth, R. S.** A class of Fibonacci-type sequences. **50** #12955
- Brillhart, John D.** (with Morton, Patrick) Über Summen von Rudin-Shapiroschen Koeffizienten. (English summary) **57** #16245
- Brown, T. C.** Behrend's theorem for sequences containing no k -element arithmetic progression of a certain type. **51** #5543
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- Cantor, David G.** (with Gordon, Basil) Sequences of integers with missing differences. **51** #8066
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- Choi, S. L. G.** On the density of certain integer sequences. **45** #3353
On sequences containing at most 3 pairwise coprime integers. **48** #6052
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- Cohen, Eckford** Pairs of relatively prime integers in residue classes and binary compositions. **46** #1742
- Cohen, Stephen D.** See **Anderson, Ian**; et al., **51** #418
- (Crews, Phillip L.)** See **Pajunen, Seppo**, **55** #286
- Delange, Hubert** Sur les fonctions multiplicatives à valeurs entières. (English summary) **55** #300
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Dress, François See **Deshouillers, Jean-Marc**, (55 #12661)

Fried, Michael D. On Hilbert's irreducibility theorem. (50 #2117)

Györy, Kálmán Sur l'irréductibilité d'une classe des polynômes. I. (47 #3344)

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Polynomials with given discriminant. (55 #12710)

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Howard, F. T. Properties of Liron's polynomials. (50 #7617)

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Lewis, Donald J. Invariant sets of morphisms on projective and affine number spaces. (51 #12850)

Nöbauer, Wilfried See **Lausch, Hans**, (50 #2037)

Perron, Oskar Eine Liste von zyklischen kubischen Gleichungen. (48 #5999)

Sato, Masahiko (with Yorinaga, Masataka) Numerical experiments on a conjecture of B. C. Mortimer and K. S. Williams. (51 #425)

Schinzel, Andrzej On a theorem of Bauer and some of its applications. II. (48 #8443)

Wald, Carter Representations of decomposable forms. (48 #10982)

Wolke, Dieter A new proof of a theorem of van der Corput. (47 #3336)

Yorinaga, Masataka See **Sato, Masahiko**, (51 #425)

Computers in number theory ★Computers in number theory. (47 #3285)

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Symposium:

Science Research Council Atlas See **Computers in number theory**, (47 #3285)

10M10 Valued fields

Secondary classifications:

Stiesoraitienė, R. An analogue of a theorem of Mahler and Sprindžuk for polynomials of degree two in two p -adic variables. (Russian. Lithuanian and English summaries) (48 #6016)

10M15 Ordered fields

Secondary classifications:

Esterie, Jean Solution d'un problème d'Erdős, Gillman et Henriksen et application à l'étude des homomorphismes de $\mathcal{C}(K)$. (58 #2298)

Sur l'existence d'un homomorphisme discontinu de $\mathcal{C}(K)$. (58 #2299)

Schwartz, Niels η_α -Strukturen. (57 #9523)

10M20 Matrices [See also 15A36.]

Beard, Jacob T. B., Jr. The number of matrix fields over $\text{GF}(q)$. **50** #2113

A rational canonical form for matrix fields. **50** #2114

Bishop, Alan A. See **Morley, Larry J.**, **57** #16248

Griffin, Malcolm P. (with Krusemeyer, Mark I.) Matrices as sums of squares. **56** #5485

Johnson, Charles R. (with Newman, Morris) Triangles generated by powers of triplets on the unit circle. **52** #10661

See also **Shiue, Jau Shyong**, **53** #7998

Krusemeyer, Mark I. See **Griffin, Malcolm P.**, **56** #5485

Lehmer, Derrick Henry Fibonacci and related sequences in periodic tridiagonal matrices. **51** #10280

Morley, Larry J. (with Bishop, Alan A.) A prime congruence theorem. **57** #16248

Newman, Morris (with Vartak, M. N.) Polynomials in a matrix. **53** #5526

On a theorem of Čebotarev. **53** #7997

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Patwardhan, G. A. (with Vartak, M. N.) The Hasse-Minkowski invariant of the 2-adjugate of a matrix. **53** #336

Ricci, Paolo Emilio Sulle potenze di una matrice. (English summary) **54** #7419

Shiue, Jau Shyong On a paper by C. R. Johnson and M. Newman: "Triangles generated by powers of triplets on the unit circle" (J. Res. Nat. Bur. Standards Sect. B **77B** (1973), no. 3-4, 137–141). (Chinese summary) **53** #7998

Taussky, Olga Additive commutators between 2×2 integral matrix representations of orders in identical or different quadratic number fields. **52** #332

Additive commutators of rational 2×2 matrices. **52** #333

Uhans'ka, D. V. Classes of matrices and continued fractions. (Ukrainian. Russian summary) **58** #27886

Vartak, M. N. See **Patwardhan, G. A.**, **53** #336 and **Newman, Morris**, **53** #5526

Vegh, Emanuel Concerning an equivalence relation for matrices. **51** #423

Secondary classifications:

Cordes, Craig M. Semigroups of non-negative integral matrices. (51 #3344)

Feaux, Charles Divisor matrices in the Cayley ring. (48 #8537)

Garbanati, Dennis A. Abelian group matrices over the p -adic and rational integers. (50 #9908)

Ivie, John A general Q -matrix. (46 #1815)

Jagannathan, R. A matrix approach to certain number theoretic problems. (56 #8474)

Kristensen, Erik Pythagorean number sets and orthonormal matrices. (Danish. English summary) (58 #10717)

Shapiro, Louis W. Upper triangular rings, ideals, and Catalan numbers. (51 #5327)

Taussky, Olga The factorization of an integral matrix into two integral symmetric matrices. II. (51 #5624)

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Lehmer, Derrick Henry The characters of linear permutations. **53** #7999

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Knopfmacher, John (with Ridley, J. N.) Prime-independent arithmetical functions. (52 #13685)

Nöbauer, Wilfried Compatible and conservative functions on residue-class rings of the integers. (55 #12709)

Ridley, J. N. See **Knopfmacher, John**, (52 #13685)

10Nxx Connections with logic

10N05 Decidability

- Azra, J.-P. Relations diophantiennes et la solution négative du 10e problème de Hilbert (d'après M. Davis, H. Putnam, J. Robinson et I. Matiasевич). **57** #9665
- Bollman, Dorothy (with Laplaza, Miguel L.) Some decision problems for polynomial mappings. **58** #16585
- Conway, John Horton Unpredictable iterations. **52** #13717
- Davis, Martin On the number of solutions of Diophantine equations. **46** #3482
- Denef, J. Hilbert's tenth problem for quadratic rings. **50** #12961
- The Diophantine problem for polynomial rings and fields of rational functions. **58** #10809
- Laplaza, Miguel L. See Bollman, Dorothy, **58** #16585
- Lipshitz, Leonard The Diophantine problem for addition and divisibility. **57** #9666
- Sabirov, M. S. Certain properties of the functions $\varphi(Z, X)$. (Russian) **56** #15599

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- Adleman, Leonard See Manders, Kenneth, (55 #11710)
- Bel'tjukov, A. P. Decidability of the universal theory of natural numbers with addition and divisibility. (Russian. English summary) (**58** #27419)
- Davis, Martin Hilbert's tenth problem is unsolvable. (**47** #6465)
- (Dimovski, Iv.) See Varpahovskii, F. I.; et al., (**58** #5150)
- Fenstad, Jens Erik Hilbert's 10th problem. (Norwegian. English summary) (**48** #85)
- Havel, Ivan On the tenth Hilbert problem. (Czech) (**56** #15382)
- Hermes, Hans Die Unlösbarkeit des zehnten Hilbertschen Problems. (**49** #2322)
- Hilbert's tenth problem. (**56** #15347)
- Hirose, Ken (with Iida, Shigeaki) A proof of negative answer to Hilbert's 10th problem. (**49** #2325)
- On Hilbert's tenth problem (negative solution). (Japanese) (**58** #27750)
- Iida, Shigeaki See Hirose, Ken, (**49** #2325)
- Jarden, Moshe Elementary statements over large algebraic fields. (**46** #1795)
- Kolmogorov, A. N. See Varpahovskii, F. I., (**58** #5150)
- Kusaba, Toshio On Hilbert's tenth problem (affirmative cases). (Japanese) (**58** #27751)
- Manders, Kenneth (with Adleman, Leonard) NP-complete decision problems for quadratic polynomials. (**55** #11710)
- Manin, Ju. I. Hilbert's tenth problem. (Russian) (**53** #7938)
- Mart'janov, V. I. Universal extended theories of integers. (Russian) (**58** #27421)
- Matijasevič, Ju. V. Solution of the tenth problem of Hilbert. (Hungarian) (**46** #3447)
- Diophantine representation of recursively enumerable predicates. (**54** #2444)
- Diophantine representation of recursively enumerable predicates. (**50** #6820)
- Diophantine representation of enumerable predicates. (Russian) (**48** #3727)
- Diophantine sets. (Russian) (**56** #109)
- Arithmetic representations of enumerable sets with a small number of quantifiers. (Russian. English summary) (**49** #8835)
- On recursive unsolvability of Hilbert's tenth problem. (**57** #5711)
- (with Robinson, Julia) Two universal three-quantifier representations of enumerable sets. (Russian) (**53** #10566)
- (with Robinson, Julia) Reduction of an arbitrary Diophantine equation to one in 13 unknowns. (**52** #8033)
- Some purely mathematical results inspired by mathematical logic. (**58** #5508)
- Primes are enumerated by a polynomial in 10 variables. (Russian. English summary) (**58** #21534)
- Miller, Charles F., III Some connections between Hilbert's 10th problem and the theory of groups. (**58** #10385)
- Miček, Josef Twin prime problem in an arithmetic without induction. (**55** #5438)
- Penzin, Ju. G. Decidability of the theory of algebraic integers with addition and with congruences modulo divisors. (Russian) (**57** #2910)
- Decidability of a theory of the integers with addition, order and predicates that distinguish a chain of subgroups. (Russian) (**53** #7755)
- The decidability of certain theories of integers. (Russian) (**48** #8222)
- Pogorzelski, H. A. Dirichlet theorems and prime number hypotheses of a conditional Goldbach theorem. (**58** #21554)
- Robinson, Julia See Matijasevič, Ju. V., (**52** #8033) and Matijasevič, Ju. V., (**53** #10566)
- Robinson, Raphael M. Some representations of Diophantine sets. (**50** #9556)
- Ruohonen, Keijo Hilbert's tenth problem. (Finnish. English summary) (**58** #190)
- Taimanov, A. D. An algorithmic problem of number theory. (Russian) (**58** #16249)
- Varpahovskii, F. I. (with Kolmogorov, A. N.) The solution of Hilbert's tenth problem. (Bulgarian) (**58** #5150)

10N10 Ultraproducts

- Ax, James A metamathematical approach to some problems in number theory. **47** #4966

Secondary classifications:

- Lipshitz, Leonard Undecidable existential problems for addition and divisibility in algebraic number rings. II. (**58** #27375b)
- Undecidable existential problems for addition and divisibility in algebraic number rings. (**58** #27375a)

10N15 Nonstandard arithmetic [See also 02H25.]

- Bunder, Maarten Wicher Visser Commutative non-associative number theory. **55** #301
- Hristov, Hristo Ja. (with Todorov, Todor D.) Asymptotic numbers—a generalization of the notion of number. (Bulgarian and Russian summaries) **49** #10657
- Kosovskii, N. K. The Diophantine representations of a sequence of solutions of the Pell equation. (Russian. English summary) **45** #226

- Labelle, Gilbert L'arithmétique toposienne des mots naturels. **52** #3103
- McMinn, Trevor J. A formal number-termed number system based on recursion. **50** #7084
- Takahashi, Shuichi ★Méthodes logiques en géométrie diophantienne. **51** #424
- Todorov, Todor D. See Hristov, Hristo Ja., **49** #10657
- Wald, Carter On Dirichlet's theorem and infinite primes. **49** #247

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- Barnes, Donald W. (with Monro, G. P.) A simple model for a weak system of arithmetic. (**50** #9571)
- Burgin, M. S. Nonclassical models of the natural numbers. (Russian) (**58** #5187)
- Ehrenfeucht, Andrzej See Jensen, Don, (**54** #7244)
- Gottwald, Siegfried Arithmetische Operationen in verallgemeinerten Peano-Systemen. (**49** #7130)
- Jensen, Don (with Ehrenfeucht, Andrzej) Some problem in elementary arithmetic. (**54** #7244)
- Mazzola, Guerino Diophantische Gleichungen und die universelle Eigenschaft Finslerscher Zahlen. (**48** #3879)
- Monro, G. P. See Barnes, Donald W., (**50** #9571)
- Phillips, Robert G. Addition in nonstandard models of arithmetic. (**47** #6478)
- Robinson, Abraham (with Roquette, Peter) On the finiteness theorem of Siegel and Mahler concerning Diophantine equations. (**51** #10222)
- Robinson, Julia Solving diophantine equations. (**58** #215)
- Axioms for number theoretic functions. (**48** #8224)
- Roquette, Peter See Robinson, Abraham, (**51** #10222)
- Shepard, Philip T. A finite arithmetic. (**48** #8210)
- Van de Waauw-de Kinder, Godelleve Arithmétique de premier ordre dans les topologies. (English summary) (**52** #8217)

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- Denef, J. Diophantine sets over $\mathbb{Z}[T]$. (**57** #2899)
- Mihev, V. L. A certain class of algebras of primitive recursive functions. (Russian) (**49** #2311)
- Pogorzelski, H. A. Semisemilogical structure of the prime numbers and conditions of Goldbach theorems. (**55** #7961)
- Goldbach conjecture. (**58** #27414)
- Ryan, W. J. The equivalence of equational and sentential general recursive arithmetics. (**55** #7756)

12-XX ALGEBRAIC NUMBER THEORY, FIELD THEORY AND POLYNOMIALS

- Borevič, Z. I. (with Šafarevič, I. R.) ★Теория чисел. (Russian) [The theory of numbers] **50** #4526
- Hecke, Erich ★Vorlesungen über die Theorie der algebraischen Zahlen. **50** #4524
- O'Meara, O. T. ★Introduction to quadratic forms. **50** #269
- (Parsin, A. N.) See Weil, André, **50** #4525
- (Platetski-Shapiro, I. I.) See Weil, André, **50** #4525
- Šafarevič, I. R. See Borevič, Z. I., **50** #4526
- (Vaserstein, L. N.) See Weil, André, **50** #4525
- van der Waal, Robert William Corrigendum: "On splitting properties of primes by means of Artin conductors" (Nederl. Akad. Wetensch. Proc. Ser. A **77** = Indag. Math. **3** (1974), 82–88). **49** #4972b
- Weil, André ★Основы теории чисел. (Russian) [Fundamentals of number theory] **50** #4525

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- (Borevič, Z. I.) See Modules and representations, (**56** #11977)
- (Kuroš, A. G.) See Collection: Reviews on algebra for the years 1941/1946, (**52** #10315 (EA 53))
- (LeVeque, William J.) See Reviews in number theory, (**50** #2040); Reviews in number theory, (**50** #2041); Reviews in number theory, (**50** #2042); Reviews in number theory, (**50** #2043); Reviews in number theory, (**50** #2044) and Reviews in number theory, (**50** #2045)
- (Skopin, A. I.) See Modules and representations, (**56** #11977)
- Algebra See Collection: Reviews on algebra for the years 1941/1946, (**52** #10315 (EA 53))
- Bibliography:
- Number theory See Reviews in number theory, (**50** #2040); Reviews in number theory, (**50** #2041); Reviews in number theory, (**50** #2042); Reviews in number theory, (**50** #2043); Reviews in number theory, (**50** #2044) and Reviews in number theory, (**50** #2045)
- Collection:
- Reviews on algebra for the years 1941/1946 ★Алгебраический реферативный сборник за 1941–1946 гг. Вып. 1: Алгебра полиномов. Линейная алгебра. Теория полей. Теория колец и алгебр. (Russian) [A collection of reviews on algebra for the years 1941–1946. No. 1: Algebra of polynomials. Linear algebra. Theory of fields. Theory of rings and algebras] (**52** #10315 (EA 53))
- Modules and representations ★Модули и представления. (Russian) [Modules and representations] (**56** #11977)
- Number theory See Reviews in number theory, (**50** #2040); Reviews in number theory, (**50** #2041); Reviews in number theory, (**50** #2042); Reviews in number theory, (**50** #2043); Reviews in number theory, (**50** #2044) and Reviews in number theory, (**50** #2045)
- Representations See Modules and representations, (**56** #11977)

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12-01 Elementary exposition (collegiate level)

Collins, George E. Computer algebra of polynomials and rational functions. 48 #2106

Díaz Barriga Casales, Alejandro Javier (with Ramírez, Ana Irene; Tomás, Francisco)

★Teoría de números algebraicos. (Spanish) [Theory of algebraic numbers] 53 #2888

Gundlach, Karl-Bernhard ★Einführung in die Zahlentheorie. 55 #10415

Il'in, A. S. A test for the solvability of problems on construction of compass and ruler. (Russian) 56 #11950

Jacy Monteiro, L. H. ★Teoria de Galois. (Portuguese) [Galois theory] 54 #10184

Marcus, Daniel A. ★Number fields. 56 #15601

McCarthy, Paul J. ★Algebraic extensions of fields. 54 #5171

McNeill, Robert B. Square roots of -1 . 58 #22010

Nagata, Masayoshi ★Field theory. 57 #9667

Narkiewicz, Władysław ★Elementary and analytic theory of algebraic numbers. 50 #268

Ramírez, Ana Irene See Díaz Barriga Casales, Alejandro Javier; et al., 53 #2888

Tomás, Francisco See Díaz Barriga Casales, Alejandro Javier; et al., 53 #2888

Weiss, Edwin ★Algebraic number theory. 54 #5172

Secondary classifications:

(Chevalley, Claude) See Warusfel, André, (49 #2899)

(de Fermat, Pierre) See Postnikov, M. M., (58 #21906)

Niven, Ivan (with Zuckerman, Herbert S.) ★An introduction to the theory of numbers. (49 #8921)

Postnikov, M. M. ★Теорема Ферма. (Russian) [Fermat's theorem] (58 #21906)

Richman, Fred ★Number theory: An introduction to algebra. (47 #116)

Warusfel, André ★Structures algébriques finies. Groupes, anneaux, corps. (49 #2899)

Zuckerman, Herbert S. See Niven, Ivan, (49 #8921)

12-02 Advanced exposition (research surveys, etc.)

Artin, Emil ★Galoissche Theorie. 52 #13718

Barsky, Daniel Introduction à l'analyse p -adique. 52 #10662Coates, John Research problems: Arithmetic questions in K -theory. 51 #12776

(Fujisaki, Genjiro) See Theory of numbers, 56 #2953

(Hattori, Akira) See Theory of numbers, 56 #2953

(Hilbert, David) See Hilbert problems, 58 #22011

(Iyanaga, Kenichi) See Theory of numbers, 56 #2953

(Iyanaga, Shōkichi) See Theory of numbers, 56 #2953

Jacobson, Nathan ★Lectures in abstract algebra. III. 52 #13719

Janusz, Gerald J. ★Algebraic number fields. 51 #3110

Lang, Serge ★Cyclotomic fields. 58 #5578

Long, Robert L. ★Algebraic number theory. 57 #9668

(Mal'cev, A. V.) See Serre, Jean-Pierre, 50 #4527

(Maurin, Krzysztof) See Varadarajan, V. S., 58 #10810

(Milgram, N. A.) See Artin, Emil, 52 #13718

Narkiewicz, Władysław Some unsolved problems. 57 #5943

Ribenboim, Paulo ★L'arithmétique des corps. 48 #8432

★Algebraic numbers. 49 #4968

Robert, Alain Des adèles: pourquoi? 50 #9837

(Satake, Ichirō) See Theory of numbers, 56 #2953

Serre, Jean-Pierre ★Курс арифметики. (Russian) [A course in arithmetic] 50 #4527

★A course in arithmetic. 49 #8956

(Shimizu, H.) See Theory of numbers, 56 #2953

(Skopin, A. L.) See Serre, Jean-Pierre, 50 #4527

(Strasburger, Aleksander) See Varadarajan, V. S., 58 #10810

(Tamagawa, Tsuneo) See Theory of numbers, 56 #2953

(Tannaka, T.) See Theory of numbers, 56 #2953

(Urbański, Paweł) See Varadarajan, V. S., 58 #10810

Varadarajan, V. S. Harmonic analysis and arithmetic. (Polish) 58 #10810

(Wawrzyńczyk, Antoni) See Varadarajan, V. S., 58 #10810

Weil, André ★Basic number theory. 55 #302

(Ziegler, Viktor) See Artin, Emil, 52 #13718

Zimmer, Horst Günter ★Computational problems, methods, and results in algebraic number theory. 48 #2107

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Theory of numbers The theory of numbers. 56 #2953

Secondary classifications:

Alibaev, E. K. See Urazbaev, B. M., (53 #1900) and Urazbaev, B. M., (53 #1901)

Feferman, S. ★Числовые системы. Основания алгебры и анализа. (Russian) [The number systems. Foundations of algebra and analysis] (50 #4435)

(Hasse, Helmut) See Leopoldt, Heinrich Wolfgang, (58 #87)

Kaplansky, Irving ★Fields and rings. (50 #2139)

Leopoldt, Heinrich Wolfgang Zum wissenschaftlichen Werk von Helmut Hasse. (58 #87)

MacLane, Saunders Topology and logic as a source of algebra. (54 #2747)

(Mal'cev, An. A.) See Feferman, S., (50 #4435)

Shanks, Daniel A survey of quadratic, cubic and quartic algebraic number fields (from a computational point of view). (56 #11951)

Shimura, Goro ★Introduction to the arithmetic theory of automorphic functions. (47 #3318)

Stark, H. M. The analytic theory of algebraic numbers. (56 #2961)

(Taimanov, A. D.) See Feferman, S., (50 #4435)

Urazbaev, B. M. (with Alibaev, E. K.) ★Таблица чисел классов идеалов мнимых квадратичных полей $R(\sqrt{-p})$ для всех простых чисел p вида $4p+3$ в пределах от $5 \cdot 10^5$ до 10^6 . (Russian) [A table of the class numbers of the imaginary quadratic fields $R(\sqrt{-p})$ for all primes P of the form $4p+3$ in the range from $5 \cdot 10^5$ to 10^6] (53 #1901)(with Alibaev, E. K.) ★Таблица чисел классов идеалов мнимых квадратичных полей $R(\sqrt{-p})$ для всех простых чисел P вида $4p+3$ в пределах от 3 до $5 \cdot 10^5$. (Russian) [A table of the class numbers of the imaginary quadratic fields $R(\sqrt{-p})$ for all primes P of the form $4p+3$ in the range from 3 to $5 \cdot 10^5$] (53 #1900)

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Reports of the Algebra Seminar of the Department of Algebra and Number Theory, Kazah State Univ. See Urazbaev, B. M.; et al., (53 #1900) and Urazbaev, B. M.; et al., (53 #1901)

Tables:

Class numbers See Urazbaev, B. M.; et al., (53 #1900) and Urazbaev, B. M.; et al., (53 #1901)

Number theory See Urazbaev, B. M.; et al., (53 #1900) and Urazbaev, B. M.; et al., (53 #1901)

12-03 Historical

Secondary classifications:

(Euclid) See Hendy, M. D., (58 #26701)

Hasse, Helmut ★Mathematische Abhandlungen. Band 1. (57 #5648a)

★Mathematische Abhandlungen. Band 2. (57 #5648b)

★Mathematische Abhandlungen. Band 3. (57 #5648c)

Hendy, M. D. Euclid and the fundamental theorem of arithmetic. (German and Japanese summaries) (58 #26701)

(Hilbert, David) See Zassenhaus, Hans J., (52 #7777)

(Iyanaga, Shōkichi) See Collected papers: Takagi, Teiji, (51 #2850)

(Kuroda, Sigeakatu) See Collected papers: Takagi, Teiji, (51 #2850)

(Leopoldt, Heinrich Wolfgang) See Hasse, Helmut, (57 #5648a); Hasse, Helmut, (57 #5648b) and Hasse, Helmut, (57 #5648c)

(Minkowski, Hermann) See Zassenhaus, Hans J., (52 #7777)

Purkert, Walter Zur Genesis des abstrakten Körperbegriffs. I. (56 #8296a)

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(Roquette, Peter) See Hasse, Helmut, (57 #5648a); Hasse, Helmut, (57 #5648b) and Hasse, Helmut, (57 #5648c)

Schinzel, Andrzej On various branches of the theory of numbers. (Bulgarian) (53 #244)

(Takagi, Teiji) See Collected papers: Takagi, Teiji, (51 #2850)

Weil, André La cyclotomie jadis et naguère. (55 #5505)

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Takagi, Teiji ★The collected papers of Teiji Takagi. (51 #2850)

12-04 Explicit machine computation and programs (not the theory of computation or programming)

Adleman, Leonard (with Manders, Kenneth) Computational complexity of decision procedures for polynomials. 57 #264

Buchberger, B. A theoretical basis for the reduction of polynomials to canonical forms. 57 #3097

(De Morgan, Augustus) See Huston, Gail S.; et al., 55 #5571

Eckmann, Jean-Pierre On the computation of the Galois group over the quotient field of $\mathbb{C}[X]$. 56 #2954

Godwin, H. J. (with Samet, P. A.) Corrigendum: "A table of real cubic fields" (J. London Math. Soc. 34 (1959), 108-110). 50 #12962

Huston, Gail S. (with Spira, Robert S.) Table errata: "On the syllogism (IV) and on the logic of relations" (Trans. Cambridge Philos. Soc. 10 (1864), 331-358), by A. De Morgan. 55 #5571

Manders, Kenneth See Adleman, Leonard, 57 #264

Moenc, Robert T. On the efficiency of algorithms for polynomial factoring. 54 #10185

Pinkert, James R. An exact method for finding the roots of a complex polynomial. 56 #299

Samet, P. A. See Godwin, H. J., 50 #12962

Sato, Masahiko (with Yoninaga, Masataka) Numerical experiments on a conjecture of B. C. Mortimer and K. S. Williams. 51 #425

Schönhage, Arnold An elementary proof for Strassen's degree bound. 55 #7987

Shanks, Daniel A survey of quadratic, cubic and quartic algebraic number fields (from a computational point of view). 56 #11951

Spira, Robert S. See Huston, Gail S., 55 #5571

Stauduhar, Richard P. The determination of Galois groups. 48 #6054

Van de Wiele, J. P. La complexité du calcul des polynômes. 57 #265

Wang, Paul S. Factoring multivariate polynomials over algebraic number fields. 58 #27887a

An improved multivariate polynomial factoring algorithm. 58 #27887b

Wohlrabe, Klaus Substituierbare Polynome. 54 #10186

Yoninaga, Masataka See Sato, Masahiko, 51 #425

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- Borodin, Allan B. (with Moenck, Robert T.) Fast modular transforms. (51 #7365)
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- Shaw, Mary (with Traub, J. F.) Selection of good algorithms from a family of algorithms for polynomial derivative evaluation. (58 #25125)
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12A45 Units and factorization

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 Birational properties of the reduced Whitehead group. (Russian) 55 #5590
 Risman, Lawrence J. Zero divisors in tensor products of division algebras. 51 #10301
 Rosset, Shmuel Abelian splitting of division algebras of prime degrees. 58 #27911
 Saltman, David J. Splittings of cyclic p -algebras. 55 #8006
 Schacher, Murray M. See Fein, Burton, 47 #1779; Fein, Burton, 54 #12716 and Fein, Burton, 56 #15615
 Stein, Michael R. See Dennis, R. Keith; et al., 54 #279
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 Tignol, Jean-Pierre Sur les classes de similitude de corps à involution de degré 8. (English summary) 58 #16605
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 Vignéras, Marie-France ★Corps de quaternions sur un corps de nombres algébriques. 51 #12795
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 Genre arithmétique des groupes modulaires de Hilbert et nombres de classes de quaternions. 55 #10428
 Correspondances entre algèbres de quaternions et classes d'idéaux stablement libres. (English summary) 54 #12717
 Simplification pour les ordres des corps de quaternions totalement définis. 55 #2851
 Wilson, S. M. J. See Fröhlich, Albrecht; et al., 50 #12979
 Zassenhaus, Hans J. On the second round of the maximal order program. 51 #8079
 On the embedding of an order into a maximal order. 53 #358
 A theorem of cyclic algebras. 57 #5962
 Secondary classifications:
 Albrecht, Uwe Über endliche Galoissche Schiefkörpererweiterungen ohne endliche Galoisgruppen. (57 #6108)
 Althoen, Steven C. (with Weidner, John F.) Real division algebras and Dickson construction. (58 #817)
 Amitsur, S. A. The generic division rings. (50 #4541)
 Cohn, Paul Moritz The range of derivations on a skew field and the equation $ax - xb = c$. (50 #13131)
 Draxl, Peter Karl Josef ★La représentation de -1 comme somme de carrés dans les ordres d'un corps de nombres algébriques. (53 #7982)
 SK_1 von Algebren über vollständig diskret bewerteten Körpern und Galois-Kohomologie abelscher Körpererweiterungen. (56 #417)
 Eichler, Martin Représentation moyenne de nombres par des formes quadratiques quaternaires. (56 #2915)
 Falk, Daniel On the invertibility of ideals in orders. (54 #2709)
 Fein, Burton (with Schacher, Murray M.) The ordinary quaternions over a Pythagorean field. (54 #5199)
 Jančevskij, V. I. Commutants of simple algebras with a surjective reduced norm. (Russian) (52 #5729)
 Division algebras over Henselian discretely valued fields. (Russian) (55 #5685)
 Reduced unitary K -theory. (Russian) (55 #12760)
 Janusz, Gerald J. Automorphism groups of simple algebras and group algebras. (57 #12610)
 Kitaoka, Yoshiyuki Scalar extension of quadratic lattices. II. (56 #2917)
 La Follette, Philip Splitting of Azumaya algebras over number rings. (55 #2833)
 Levina, I. A. The number of equivalence classes of weakly equivalent lattices. (51 #12909)
 Lipnickij, V. A. On the Tannaka-Artin problem over special fields. (Russian) (53 #10864)
 Martinet, Jacques Modules projectifs sur un ordre. (52 #13939)
 Mautner, Friederich Ignaz Sur certains analogues des formules de Riemann-von Mangoldt-Selberg-Weil. (51 #5560)
 McQuillan, Donald L. Réseaux sur les anneaux d'entiers algébriques. (53 #13156)
 Platonov, V. P. On the Tannaka-Artin problem. (Russian) (52 #5728a)
 The Tannaka-Artin problem, and groups of projective conorms. (Russian) (52 #5728b)
 The infiniteness of the reduced Whitehead group. (Russian) (53 #3008)
 The reduced Whitehead group for cyclic algebras. (Russian) (54 #10328a (E #10328b))
 Correction: "The reduced Whitehead group for cyclic algebras" (Dokl. Akad. Nauk SSSR 228 (1976), no. 1, 38-40). (Russian) (54 #10328b)
 Approximation in algebraic groups over arbitrary fields. (Russian) (54 #1043)
 The Tannaka-Artin problem, and reduced K -theory. (Russian) (53 #10865 (E #12830))
 Infiniteness of the reduced Whitehead group in the Tannaka-Artin problem. (Russian) (54 #355)
 Ponomarev, Paul Arithmetic of quaternary quadratic forms. (54 #2618)
 Reiner, Irving ★Maximal orders. (52 #13910)
 Risman, Lawrence J. Non-cyclic division algebras. (58 #11007)
 Saltman, David J. Noncrossed product p -algebras and Galois p -extensions. (58 #796)
 Schacher, Murray M. See Fein, Burton, (54 #5199)
 Shavel, Ira H. On surfaces obtained from quaternion algebras over real quadratic fields. (54 #12663)
 Sonn, Jack Galois groups of global fields of finite characteristic. (54 #10202)
 Szczepanik, Bonifacy The number of quaternion algebras over a field. (Polish summary) (52 #10595)
 Turner, Stuart The zeta function of a class of rational varieties. (52 #3169)
 Vignéras, Marie-France Partie fractionnaire de zêta au point -1 . (50 #12977)
 Voskresenskij, V. E. The reduced Whitehead group of a simple algebra. (Russian) (58 #16677)
 Weidner, John F. See Althoen, Steven C., (58 #817)
 12A85 Analysis in adèle rings and groups
 Haris, Stephen J. An equality of distributions associated to families of theta series. 53 #359
 Igusa, Jun-ichi On the arithmetic of Pfaffians. 51 #12798
 Complex powers and asymptotic expansions. II. Asymptotic expansions. 53 #8018
 Criteria for the validity of a certain Poisson formula. 57 #281
 Komatsu, Keiichi On the adèle rings of algebraic number fields. 54 #12718
 Mautner, Friederich Ignaz Sur certaines formules de trace explicites. 46 #1759
 Sur certains analogues des formules de Riemann-von Mangoldt-Selberg-Weil. 51 #5560
 McFeat, R. B. Geometry of numbers in adèle spaces. 47 #6653
 Novodvorsky, Mark E. Euler products for the full linear and symplectic groups. (Russian) 53 #2901
 Vignéras, Marie-France Le théorème d'Eichler sur le nombre de classes d'idéaux d'un corps de quaternions totalement défini et la mesure de Tamagawa. 51 #12796
 Quaternions et applications. 51 #12797
 Exemples de sous-groupes discrets non conjugués de $PSL(2, \mathbb{R})$ qui ont même fonction zêta de Selberg. (English summary) 58 #10826
 Secondary classifications:
 Benedetto, John J. Ideale characters in spectral synthesis on $\mathbb{R}/2\pi\mathbb{Z}$. (French summary) (50 #14068)

- Bentz, Hans-J. Die Weilsche “Explizite Formel” und temperierte Distributionen. (57 #254)
- Corwin, Lawrence Zeta functions for abelian characters of simple algebras. (47 #6652)
- Gelbart, Stephen S. Automorphic forms and Artin’s conjecture. (58 #27907)
- Grandet-Hugot, Marthe Quelques résultats concernant l’équirépartition dans l’anneau des adèles d’un corps de nombres algébriques. (55 #12674a (E 55 #12674b))
 “Quelques résultats concernant l’équirépartition dans l’anneau des adèles d’un corps de nombres algébriques.” Rectificatif (Bull. Sci. Math. (2) 99 (1975), no. 2, 91–111). (55 #12674b)
 Équirépartition dans les adèles. (English summary) (51 #8061)
- Harris, Stephen J. A Siegel formula for orthogonal groups over a function field. (50 #2077)
- Igusa, Jun-ichi On a certain Poisson formula. (50 #275)
 A Poisson formula and exponential sums. (54 #5119)
- Iwasawa, Kenkichi Some remarks on Hecke characters. (57 #5959)
- Kubota, Tomio On an analogy to the Poisson summation formula for generalized Fourier transformation. (50 #4539)
- Mautner, Friederich Ignaz Formules de trace explicites pour certains opérateurs de Hecke. (49 #2673)
- Meyer, Yves Adèles et séries trigonométriques spéciales. (54 #268)
 Adèles et séries trigonométriques spéciales. (47 #5525)
- Novodvorsky, Mark E. See Piatetski-Shapiro, I. I., (56 #8498)
- Piatetski-Shapiro, I. I. (with Novodvorsky, Mark E.) Rankin-Selberg method in the theory of automorphic forms. (56 #8498)
- Rais, Mustapha ★Distributions homogènes sur des espaces de matrices. (58 #22412)
- Robert, Alain Des adèles: pourquoi? (50 #9837)
- Spry, Jih Min On relative class numbers of certain quadratic extensions. (51 #5555)
- Springer, Tonny Albert Caractères quadratiques de groupes abéliens finis et sommes de Gauss. (58 #27762)
- Taylor, M. J. Locally free classgroups of groups of prime power order. (57 #3193)
- Verner, Lawrence A mean value formula for the spin group. (52 #3056)
 Quadratic forms in an adelic setting. (56 #15560)
- Yamazaki, Tadashi Zeta-functions of strongly non-degenerate forms. (58 #16559)
- Bull. Soc. Math. France Mém. See Rais, Mustapha, (58 #22412)
- 12A90 Arithmetic theory of algebraic function fields [See also 14–XX.]
- Armitage, J. V. Euclid’s algorithm in algebraic function fields. II. (45 #225)
- Bond, Robert J. Function fields with isomorphic Galois groups. (56 #317)
- Brzezinski, Julius Remarks on relations between maximal lattices and relatively minimal models. (53 #13172)
- Cantor, David G. On arithmetic properties of the Taylor series of rational functions. II. (46 #5286)
- Deuring, Max ★Lectures on the theory of algebraic functions of one variable. (49 #8970)
- Elisstrator, I. V. Some questions of the theory of algebraic functions. (Russian) (53 #2902)
- Fried, Michael D. Arithmetical properties of function fields. II. The generalized Schur problem. (56 #2968)
- Galkin, V. M. A certain ideal in the group ring of a cyclic group. (Russian) (52 #13747)
- Ihara, Yasutaka Non-Abelian class fields over function fields in special cases. (54 #10210)
- Ivanov, A. F. p -adic Dirichlet characters of function fields. (Russian) (53 #8019)
- Kenku, M. A. Atkin-Lehner involutions and class number residuality. (58 #601)
- Kervaire, Michel A. Fractions rationnelles invariantes (d’après H. W. Lenstra). (55 #8007)
- Knopfmacher, John An abstract prime number theorem relating to algebraic function fields. (57 #282)
- Kôshiba, Yôichi A number-theoretic property of algebraic function fields. (Japanese) (51 #10302 (EA 53))
 An arithmetic property of algebraic function fields. (55 #2852)
- Leitzel, James R. C. Class number in constant extensions of function fields. (46 #7200)
 (with Madan, Manohar L.; Queen, Clifford S.) Algebraic function fields with small class number. (51 #5561)
 (with Madan, Manohar L.) Algebraic function fields with equal class number. (54 #2624)
 Congruence function fields of genus g and class number $g+1$. (55 #10429)
- Macrae, R. E. On the density of conjugate fixed points of a correspondence. (48 #8448)
- Madan, Manohar L. (with Queen, Clifford S.) Algebraic function fields of class number one. (46 #5287)
 (with Queen, Clifford S.) Euclidean function fields. (48 #3922)
 (with Madden, Daniel J.) The exponent of class groups in congruence function fields. (55 #12702)
 (with Madden, Daniel J.) Note on class groups of algebraic function fields. (57 #283)
 (with Madden, Daniel J.) Null class groups of algebraic function fields. (55 #2853)
 See also Leitzel, James R. C.; et al., (51 #5561 and Leitzel, James R. C., (54 #2624)
- Madden, Daniel J. See Madan, Manohar L., (55 #2853; Madan, Manohar L., (55 #12702 and Madan, Manohar L., (57 #283)
- Markanda, Raj K. On the fundamental unit and class number of certain quadratic function fields. I. (51 #446)
- Martens, Gerriet Die Zerlegungscharaktere abelscher total reeller Erweiterungen reeller Funktionenkörper einer Variablen. (English summary) (58 #27913)
- Massaza, Carla Serie di potenze a coefficienti in un campo non archimedeo. (English summary) (47 #188)
- Miyake, Toshitsune On Galois theory of automorphic function fields. (51 #10303)
- Ostrowski, Alexander M. On a theorem by Kronecker. (54 #282)
- Penzin, Ju. G. Norm laws for cubic extensions of fields of rational functions. (Russian) (53 #8020)
- Prestel, Alexander Local-global principles for quadratic forms over function fields. (58 #10827)
- Queen, Clifford S. Euclid’s algorithm in global fields. (49 #253)
 Arithmetic euclidean rings. (51 #448)
 Some arithmetic properties of subrings of function fields over finite fields. (52 #346)
 See also Madan, Manohar L., (46 #5287; Madan, Manohar L., (48 #3922 and Leitzel, James R. C.; et al., (51 #5561)
- Risman, Lawrence J. Stability: index and order in the Brauer group. (52 #347)
- Rosen, Michael I. The asymptotic behavior of the class group of a function field over a finite field. (48 #3923)
 Ambiguous divisor classes in function fields. (57 #3102)
- Schwach, Paul Sur la génération des corps quasi métacycliques. (English summary) (54 #10211)
- Smith, David J. Euclidean subdomains of algebraic function fields. (47 #189)
- Takahashi, Toyofumi Galois cohomology in unramified extensions of algebraic function fields. (52 #348)
 Galois cohomology in unramified extensions of algebraic function fields. (48 #3924)
- Voskresenskii, V. E. Fields of invariants of abelian groups. (Russian) (52 #13748)
- Washio, Tadashi A note on class numbers of elliptic function fields. (51 #447)
 On class numbers of hyperelliptic function fields. (58 #5600)
- Yokogawa, Kenji Brauer groups of algebraic function fields and their adèle rings. (46 #5288)
- Secondary classifications:
- Berndt, Rolf Beiträge zur Arithmetik der elliptischen Körper. I. (49 #2551)
 Zur Kennzeichnung minimaler Modelle mit Hilfe der Differente eines Differentials. (51 #481)
 Über Differentialintegritäten endlich erzeugbarer Körper. (51 #482)
 (with Schramm, Klaus) Arithmetisch ganze Differentiale der Modulfunktionenkörper 6. und 7. Stufe. (58 #27770)
- Brown, Ron Valuations, primes and irreducibility in polynomial rings and rational function fields. (51 #8089)
- Dubois, Eugène See Paysant Le Roux, Roger, (47 #144)
- Elman, Richard Rund forms over real algebraic function fields in one variable. (48 #2074)
- Etayo, José Javier Differential properties of algebraic projection. (Spanish) (50 #7148)
- Frey, Gerhard Maximal abelsche Erweiterung von Funktionenkörpern über lokalen Körpern. (56 #12009)
- Fridlander, V. R. See Zobin, N. M.; et al., (58 #16647)
- Fried, Michael D. On a theorem of MacCluer. (49 #2680)
 The field of definition of function fields and a problem in the reducibility of polynomials in two variables. (50 #329)
 Fields of definition of function fields and Hurwitz families—groups as Galois groups. (56 #12006)
- Hayes, David R. Explicit class field theory for rational function fields. (48 #8444)
- Ihara, Yasutaka On $(\infty \times p)$ -adic coverings of curves (the simplest example). (Russian summary) (49 #10663)
- Jarden, Moshe Realization of finite groups over function fields. (46 #7202)
- Kato, Akikuni Singularities of projective embedding (points of order n on an elliptic curve). (46 #5333)
- Kubert, Daniel Sion (with Lang, Serge) Units in the modular function field. I. (55 #10424a)
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 (with Lang, Serge) Units in the modular function field. III. Distribution relations. (55 #10424c)
- Lang, Serge See Kubert, Daniel Sion, (55 #10424a); Kubert, Daniel Sion, (55 #10424b) and Kubert, Daniel Sion, (55 #10424c)
- Madan, Manohar L. (with Pal, Sat) Galois cohomology and a theorem of E. Artin. (57 #5949)
- Madden, Daniel J. Quadratic function fields with invariant class group. (56 #308)
- Martens, Gerriet Galoisgruppen über aufgeschlossenen reellen Funktionenkörpern. (53 #13178)
 Kummertheorie reeller Funktionenkörper einer Variablen. (56 #8581)
- Novodvorsky, Mark E. Théorie de Hecke pour certains groupes orthogonaux. (English summary) (55 #12699)
- Osgood, Charles F. An effective lower bound on the “diophantine approximation” of algebraic functions by rational functions. (50 #7050)
- Pal, Sat See Madan, Manohar L., (57 #5949)
- Paysant Le Roux, Roger (with Dubois, Eugène) Étude métrique de l’algorithme de Jacobi-Perron dans un corps de séries formelles. (47 #144)
- Prasad, Gopal Strong approximation for semi-simple groups over function fields. (56 #2921)
- Queen, Clifford S. Non-conservative function fields of genus one. I. (46 #5331)
- Ribenboim, Paulo 17ème problème de Hilbert. (50 #12918)
- Roberts, Leslie G. Symbols on an elliptic curve. (54 #10257)
- Rosen, Michael I. S -units and S -class group in algebraic function fields. (48 #6119)
- Scharlau, Winfried Quadratic reciprocity laws. (45 #1835)
- Schleich, Theodor ★Einige Bemerkungen zur Spektralzerlegung der Hecke-Algebra für die PGL_2 über Funktionenkörpern. (56 #8759)
- Schmidt, Wolfgang M. Zur Methode von Stepanov. (48 #11118)
- Schnitzger, Hartmut Funktionenkörper mit isomorphen absoluten Galoisgruppen. (55 #12691)
- Schramm, Klaus See Berndt, Rolf, (58 #27770)
- Singh, Balwant On the group of automorphisms of function field of genus at least two. (50 #13047)
- Sočneva, V. A. See Zobin, N. M.; et al., (58 #16647)

- Stark, H. M. On the Riemann hypothesis in hyperelliptic function fields. (48 #11119)
 Stoia, Manuela Riemann-Roch theorem for curves with singularities. (Romanian. English summary) (46 #7244)
 Tamme, Günter Teilkörper höheren Geschlechts eines algebraischen Funktionenkörpers. (47 #228)
 Ein Satz über hyperelliptische Funktionenkörper. (47 #229)
 Voskresenskii, V. E. Some questions of the birational geometry of algebraic tori. (Russian) (54 #10287)
 Zobin, N. M. (with Sočneva, V. A.; Fridlender, V. R.) An algebraically closed field. (Russian) (58 #16647)

12A95 Totally real and totally positive fields

- Manin, Ju. I. Non-Archimedean integration and p -adic Jacquet-Langlands L -functions. (Russian) (54 #5194)

Secondary classifications:

- Coates, John (with Sinnott, W.) Integrality properties of the values of partial zeta functions. (55 #12697)
 Hsia, John S. (with Johnson, Robert P.) Round and group quadratic forms over global fields. (48 #2073)
 Johnson, Robert P. See Hsia, John S., (48 #2073)
 Kitaoka, Yoshiyuki Scalar extension of quadratic lattices. (54 #5117)
 Nguyen-Quang-Do Thong Unités de norme (-1) d'un corps quadratique réel. (56 #8527)
 Pizer, Arnold K. Type numbers of Eichler orders. (49 #2650)
 Pohst, Michael Eine Regulatorabschätzung. (58 #16596)
 Schaal, Werner Der Satz von Erdős und Fuchs in reell-quadratischen Zahlkörpern. (55 #7969)
 Shintani, Takuro On evaluation of zeta functions of totally real algebraic number fields at non-positive integers. (55 #266)
 On certain ray class invariants of real quadratic fields. (55 #12685)
 Sinnott, W. See Coates, John, (55 #12697)
 Sprindžuk, V. G. Algebraic number fields with large class number. (Russian) (50 #9842)
 Terras, Audrey A. The Fourier expansion of Epstein's zeta function for totally real algebraic number fields and some consequences for Dedekind's zeta function. (54 #5192)

12A99 None of the above, but in this section

- Asano, Hiroshi On a class of nonassociative algebras. (52 #8201)
 Cooke, George E. (with Weinberger, Peter J.) On the construction of division chains in algebraic number rings, with applications to SL_2 . (52 #8094)
 Kubota, Kenneth K. Note on a conjecture of W. Narkiewicz. (46 #9007)
 Pleasants, P. A. B. The number of generators of the integers of a number field. (52 #3122)
 Shanks, Daniel Gauss's ternary form reduction and the 2-Sylow subgroup. (45 #6789) (E 58 #10735)
 Siegel, Carl Ludwig Algebraische Abhängigkeit von Wurzeln. (46 #1760)
 Weinberger, Peter J. See Cooke, George E., (52 #8094)

Secondary classifications:

- Cassou-Noguès, Philippe Classes d'idéaux de l'algèbre d'un groupe abélien. (51 #666)
 Hodges, Wilfred Lächli's algebraic closure of \mathbb{Q} . (54 #10014)
 Kung, H. T. The computational complexity of algebraic numbers. (54 #9152)
 Pfeuffer, Horst Quadratsummen in totalreellen algebraischen Zahlkörpern. (47 #138)
 Schulze, Volker Potenzreste. (57 #220)

12Bxx Algebraic number theory: local and p -adic fields

- Serre, Jean-Pierre ★Corps locaux. (50 #7096)
 Wiśniewski, Witold Non-Archimedean analysis, and the p -adic number fields. (Polish) (56 #15616)

12B05 Polynomials

- Barsky, Daniel Fonctions k -lipschitziennes sur un anneau local et polynômes à valeurs entières. (51 #8080)
 Grazzini, Fulvio See Haouat, Youssef, (55 #10430)
 Gusev, G. I. On a conjecture concerning Poincaré series. (Russian) (48 #8449)
 Poincaré series. (Russian) (54 #10212)
 Györy, Kálmán On polynomials with integer coefficients and given discriminant. V. p -adic generalizations. (58 #16606)
 Haouat, Youssef (with Grazzini, Fulvio) Polynômes et différences finies divisées. (English summary) (55 #10430)
 Kantardžieva, Elena See Pirgov, Dimit'r, (45 #8639)
 Pirgov, Dimit'r (with Kantardžieva, Elena) Certain theorems on the indecomposability of integer polynomials in the field of rational numbers whose values are powers of a prime number. (Bulgarian. Russian and German summaries) (45 #8639)
 Weiss, A. Characteristic polynomials of symmetric matrices over local fields. (58 #602)

Secondary classifications:

- Bender, Edward A. (with Herzberg, Norman P.) Symmetric matrices, characteristic polynomials, and Hilbert symbols over local number fields. (47 #1831)
 Dodson, M. M. A note on homogeneous additive equations over p -adic fields. (52 #3027)
 Greenberg, Marvin Jay Strictly local solutions of Diophantine equations. (50 #4482)

- Herzberg, Norman P. See Bender, Edward A., (47 #1831)
 Kitaoka, Yoshiyuki On the generalization of the genus. (52 #336)
 Moser, Claude Sommes de carrés d'entiers dans un corps dyadique. (48 #8388)
 Schulze, Volker Die Primteilerdichte von ganzzahligen Polynomen. I. (45 #8640)

12B10 Ramification and extension theory

- Amano, Shigeru Eisenstein equations of degree p in a p -adic field. (46 #7201)
 Bertrandias, Françoise (with Ferton, Marie-Josée) Sur l'anneau des entiers d'une extension cyclique de degré premier d'un corps local. (45 #5108)
 (with Bertrandias, Jean-Paul; Ferton, Marie-Josée) Sur l'anneau des entiers d'une extension cyclique de degré premier d'un corps local. (45 #5109)
 Bertrandias, Jean-Paul See Bertrandias, Françoise; et al., (45 #5109)
 Borevič, Z. I. (with Vostokov, S. V.) The ring of integral elements of an extension of prime degree of a local field as a Galois module. (Russian) (48 #8450)
 Eršov, Ju. L. Semilocal fields. (Russian) (49 #2674)
 Fardoux, Gérard Sur les extensions pseudodédiées d'un corps local. (48 #2116)
 Ferton, Marie-Josée Sur l'anneau des entiers d'une extension diédrale de degré $2p$ d'un corps local. (45 #8642)
 Sur les idéaux d'une extension cyclique de degré premier d'un corps local. (48 #11059)
 See also Bertrandias, Françoise, (45 #5108) and Bertrandias, Françoise; et al., (45 #5109)
 Gordeev, N. L. Infinity of the number of relations in the Galois group of maximal p -extension with bounded ramification of a local field. (Russian) (56 #318)
 Ramification groups of infinite p -extensions of a local field. (Russian) (57 #124)
 Idt, Jeanne Calcul des ordres des groupes de ramification et des nombres de ramification des extensions $k^{(0)}/k$ de Chafarevitch. (49 #4978)
 Jakovlev, A. V. On the theory of symplectic spaces with operators. (Russian) (52 #31)
 Koch, Helmut Über das Normenrestsymbol einer lokalen unverzweigten Erweiterung von 2-Potenzgrad. (53 #8021)
 Über das Normenrestsymbol einer lokalen unverzweigten Erweiterung von 2-Potenzgrad. (Russian summary) (48 #11060)
 Lesev, V. D. The p -adic completion of the multiplicative group of a normal extension of a regular local field with cyclic ramification subfield. (Russian) (55 #12703)
 Marshall, Murray A. Ramification theory for valuations of arbitrary rank. (50 #7097)
 The Nakayama map and ramification for maximally complete fields. (50 #7097)
 Martel, Bruno Sur l'anneau des entiers d'une extension biquadratique d'un corps 2-adique. (49 #2675)
 Maruno, Takaaki On the ramification numbers of a tower of the maximal Abelian extension of p -adic number fields with exponent p^m . (56 #11965)
 Maus, Eckart On the jumps in the series of ramifications groups. (51 #449)
 Über die Verteilung der Grundverzweigungszahlen von wild verzweigten Erweiterungen p -adischer Zahlkörper. (50 #7099)
 Relationen in Verzweigungsgruppen. (49 #10665)
 Miki, Hiroo A note on Maus' theorem on ramification groups. (56 #5508)
 Neumann, Olaf Proper solutions of the imbedding problem with restricted ramification. (56 #5509)
 Nguyen-Quang-Do Thong Ramification et dénombrement dans les p -extensions, d'un corps locaux. (English summary) (52 #13749)
 Filtration de K^*/K^{*p} et ramification sauvage. (54 #7433)
 Pieper, Herbert Die Einheitengruppe eines zahm-verzweigten galoisschen lokalen Körpers als Galois-Modul. (50 #12981)
 Die Einheitsengruppen höherer Stufen einer zerfallenden zahm-verzweigten Erweiterung als Galoismoduln. (50 #12982)
 Risman, Lawrence J. Cyclic algebras, complete fields, and crossed products. (56 #156)
 Sen, Shankar Ramification in p -adic Lie extensions. (47 #8490)
 Tran Quang Phung Construction d'une extension L/K de ramification triviale. (57 #284)
 Vélez, William Yslas A characterization of completely regular fields. (55 #2854)
 Vostokov, S. V. See Borevič, Z. I., (48 #8450)
 Williamson, Susan Ramification theory for extensions of degree p . II. (46 #3489)

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 Henoud, Leila ★Autour de la non ramification. (51 #5565)
 Heuser, Ansgar Eine Anwendung der Hasse-Schmidt-Differentialrechnung auf ein Verzweigungsproblem. (50 #295)
 Hill, Linda Henselian valued fields with prescribed value group and residue field. (49 #8973)
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 Madan, Manohar L. On a theorem of M. Deuring and I. R. Šafarevič. (57 #329)
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 Miyata, Yoshimasa On the module structure of the ring of all integers of a p -adic number field. (50 #4543)
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- Bergé, Anne-Marie Sur l'arithmétique d'une extension cyclique totalement ramifiée d'un corps local. (English summary) **54** #2625
- Bertrandias, Françoise Entiers d'une p -extension cyclique d'un corps local. (English summary) **58** #16607
- Borevick, Z. I. (with Èl' Musa, Ali Jusuf) Completion of the multiplicative group of a p -extension of an irregular local field. (Russian) **50** #7100
- Cassels, J. W. S. An embedding theorem for fields. **54** #10213a (E **54** #10213b)
- Addendum: "An embedding theorem for fields" (Bull. Austral. Math. Soc. **14** (1976), no. 2, 193-198). **54** #10213b
- Čerednik, I. V. On a question about the Šafarevič mapping. (Russian) **50** #4542
- Deveney, James Kevin See Heerema, Nicholas, **52** #5629
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- Ferton, Marie-Josée Sur l'anneau des entiers d'une extension cyclique de degré premier d'un corps local. **52** #13750
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- Sur l'anneau des entiers de certaines extensions cycliques d'un corps local. **51** #10305
- Fontaine, Jean-Marc Sur les représentations d'Artin. **51** #10306
- Garand, Gérard Invariants dans le complété de la clôture algébrique d'un corps local. **53** #5539
- Gillard, Roland Sur le problème du plongement des extensions galoisiennes. **45** #8636
- Heerema, Nicholas (with Deveney, James Kevin) A Galois theory for inertial automorphisms of p -adic fields. **52** #5629
- Jakovlev, A. V. Comments on my paper: "The Galois group of the algebraic closure of a local field" (Izv. Akad. Nauk SSSR Ser. Mat. **32** (1968), 1283-1322). (Russian) **58** #604
- Jarden, Moshe Realization of finite groups over function fields. **46** #7202
- Intersections of conjugate fields of finite corank over Hilbertian fields. **58** #16608
- Kamenskii, A. G. The representations of the W -group of a local field. (Russian) **53** #10767
- Koch, Helmut ★Galoissche Theorie der p -Erweiterungen. **45** #233
- ★Теория Галуа p -расширений. (Russian) [The Galois theory of p -extensions] **49** #10666
- Classification of the primitive representations of the Galois group of local fields. **56** #8540
- Galois group of a p -closed extension of a local field. (Russian) **57** #12466
- (Kuz'min, L. V.) See Koch, Helmut, **49** #10666
- Lur'e, B. B. The embedding problem for local fields. (Russian) **50** #7101
- The embedding problem for local fields with nonabelian kernel. (Russian) **50** #278
- Massy, Richard (with Nguyen-Quang-Do Thong) Extensions galoisiennes non abéliennes de degré p^3 d'un corps \mathfrak{P} -adique. (English summary) **52** #13751
- Miki, Hiroo On the imbedding problem of local fields. **55** #5591
- Miyata, Yoshimasa On the module structure of the ring of all integers of a p -adic number field. **50** #4543
- Nguyen-Quang-Do Thong See Massy, Richard, **52** #13751
- (Šafarevič, I. R.) See Koch, Helmut, **45** #233 and Koch, Helmut, **49** #10666
- Shiraso, Takeo On the Kummer extensions of degree p^n over a local number field. **53** #360
- Sonn, Jack Epimorphisms of Demushkin groups. **50** #2129
- Wagner, Carl G. Automorphisms of p -adic number fields. **48** #11061
- Wagoner, John B. Continuous cohomology and p -adic K -theory. **58** #16609
- Watanabe, Shin-ichi On the Galois groups of local fields. (Japanese. English summary) **54** #7434
- The Galois group of local fields. **57** #285
- Yamagata, Shuji A counterexample for the local analogy of a theorem by Iwasawa and Uchida. **54** #12719
- Zel'venskii, I. G. The algebraic closure of a local field when $p=2$. (Russian) **48** #11062
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- Ikeda, Masatoshi Completeness of the absolute Galois group of the rational number field. **56** #310
- Lesev, V. D. The p -adic completion of the multiplicative group of a normal extension of a regular local field with cyclic ramification subfield. (Russian) **55** #12703
- Lur'e, B. B. The compatibility condition in the problem of the imbedding of fields. (Russian) **57** #12459
- Polec'kih, V. M. Topological groups that are nearly groups of rank one. (Russian) **55** #5790
- Yamada, Toshihiko Schur indices over the 2-adic field. **57** #9824

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- Ch'en, Yung Ch'iu On Demushkin groups and their Schur multipliers. **57** #5963
- David, Patrick Détermination de la structure du groupe des unités principales d'une p -extension abélienne K d'un corps local régulier, considéré comme un $Z_p(G(K/k))$ -module. (English summary) **58** #27914
- Douai, Jean-Claude 2-cohomologie galoisienne des groupes semi-simples définis sur les corps locaux. (English summary) **53** #5540
- Ivanov, F. A. Elements of prime order p in a one-dimensional group of formally analytic transformations on a field of characteristic p . (Russian) **56** #15618
- Jakovlev, A. V. Abstract characterization of the Galois group of the algebraic closure of a local field. (Russian) **58** #10828

- Jančevskii, V. I. See Platonov, V. P., **52** #349
- Koblitz, Neal I. ★ p -adic numbers, p -adic analysis, and zeta-functions. **57** #5964
- Koch, Helmut Über Pro- p -Gruppen der kohomologischen Dimension 2. **57** #9672
- Konovaiov, G. T. The multidimensional Šafarevič-Serre theorem. (Russian) **47** #8491
- Kraft, Hanspeter Cohomological dimension of local fields. **49** #2676
- Krupjak, I. S. See Vvedens'kii, O. M., **55** #5593
- Miki, Hiroo On some Galois cohomology groups of a local field and its application to the maximal p -extension. **52** #10687
- Nguyen Kúi Zì The homological determination of torsion modules. (Russian. English summary) **51** #8081
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- Platonov, V. P. (with Jančevskii, V. I.) On a conjecture of Harder. (Russian) **52** #349
- Shatz, Stephen S. ★Profinite groups, arithmetic, and geometry. **50** #279
- (Venkov, B. B.) See Modules and homology in group theory and Galois theory, **48** #274
- Vostokov, S. V. Ideals of the abelian p -extension of an irregular local field as Galois modules. (Russian) **51** #8082
- Vvedens'kii, O. M. (with Krupjak, I. S.) A remark on the nondegeneracy of the Tate pairing in the Galois cohomology of finite modules over a general local field. (Russian) **55** #5593
- Yamada, Toshihiko Cyclotomic algebras over a 2-adic field. **48** #11063
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- Childs, Lindsay N. Mayer-Vietoris sequences and Brauer groups of nonnormal domains. **49** #8979
- Cvetkov, V. M. The characteristic of Euler-Poincaré pro- p -groups. (Russian) **58** #621
- Fröhlich, Albrecht On the class group of integral group rings of finite Abelian groups. II. **48** #394
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- Madan, Manohar L. On a theorem of M. Deuring and I. R. Šafarevič. **57** #329
- Milne, James Stuart Addendum: "Weil-Châtelet groups over local fields" (Ann. Sci. École Norm. Sup. (4) **3** (1970), 273-284). **48** #6121
- Roberts, Lawrence G. The flat cohomology of group schemes of rank P . **49** #2741

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- Borevick, Z. I. (with Gerlovina, È. L.) Structure of the group of principal units of a cyclic p -extension of a local field. (Russian) **56** #11967
- Carroll, Joseph E. On the torsion in K_2 of local fields. **53** #2903
- Gerlovina, È. L. See Borevick, Z. I., **56** #11967
- Gold, Robert (with Madan, Manohar L.) Some applications of Abhyankar's lemma. **58** #5601
- Hazewinkel, Michiel Local class field theory is easy. **52** #10688
- Kato, Kazuya A generalization of local class field theory by using K -groups. I. **57** #3103
- Kawada, Yukiyosi Class formations. **50** #12983
- Madan, Manohar L. See Gold, Robert, **58** #5601
- Miki, Hiroo On unramified Abelian extensions of a complete field under a discrete valuation with arbitrary residue field of characteristic $p \neq 0$ and its application to wildly ramified Z_p -extensions. **55** #10432
- Neukirch, Jürgen (with Perlis, Robert) Fields with local class field theory. **54** #10214
- Onishi, Hiromori Axiomatic non-archimedean class field theory. **54** #10215
- Perlis, Robert See Neukirch, Jürgen, **54** #10214
- Shiratan, Katsumi A generalization of Vandiver's congruence. **46** #5289
- Spivakov, Ju. L. Proof of the fundamental theorem of local class field theory for the broader class $\kappa_D((t))$. (Russian. Uzbek summary) **52** #5630
- Stöhr, Karl-Otto Homotopietheorie proalgebraischer Gruppen und lokale Klassenkörpertheorie. **46** #9008
- Tate, J. On the torsion in K_2 of fields. **57** #3104
- Tunnell, Jerrold B. On the local Langlands conjecture for $GL(2)$. **57** #16262
- Vostokov, S. V. A normal base of an ideal of a local field. (Russian) **56** #8541
- Ideals of an Abelian p -extension of a local field as Galois modules. (Russian) **56** #11968
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- Well, André Exercices dyadiques. **52** #350
- Wiles, A. Higher explicit reciprocity laws. **58** #605
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- Drinfel'd, V. G. Coverings of p -adic symmetric domains. (Russian) **54** #10281

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 Hazewinkel, Michiel On norm maps for one dimensional formal groups. I. The cyclotomic Γ -extension. (50 #2185)
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 Koch, Helmut Über das Normrestsymbol einer lokalen unverzweigten Erweiterung von 2-Potenzgrad. (53 #8021)
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12B30 Zeta- and L -functions [See also 10H10.]

- Bushnell, C. J. Integrality of Galois Jacobi sums. 55 #8008
 Cartier, Pierre (with Roy, Y.) Certains calculs numériques relatifs à l'interpolation p -adique des séries de Dirichlet. 48 #8451
 Cassou-Nogués, Pierrette Formes linéaires p -adiques et prolongement analytique. 53 #2904
 Greenberg, Ralph On p -adic L -functions and cyclotomic fields. 50 #12984
 On 2-adic L -functions and cyclotomic invariants. 57 #16263
 Katz, Nicholas M. Formal groups and p -adic interpolation. 56 #319
 The Eisenstein measure and p -adic interpolation. 58 #5602
 Leopoldt, Heinrich Wolfgang Eine p -adische Theorie der Zetawerte. II Die p -adische Γ -Transformation. 52 #351
 Morita, Yasuo A p -adic analogue of the Γ -function. 54 #12720
 The integral forms of p -adic L -functions. (Japanese) 58 #10831
 Ribet, Kenneth A. p -adic interpolation via Hilbert modular forms. 54 #7435
 Roy, Y. See Cartier, Pierre, 48 #8451
 Serre, Jean-Pierre Sur le résidu de la fonction zêta p -adique d'un corps de nombres. (English summary) 58 #22024
 Shiratani, Katsumi On certain values of p -adic L -functions. 53 #8022
 On a formula for p -adic L -functions. 56 #320
 Wagstaff, Samuel S., Jr. Zeros of p -adic L -functions. 52 #8096
 Washington, Lawrence C. The calculation of $L_p(1, \chi)$. 55 #12704
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 Igusa, Jun-ichi On the first terms of certain asymptotic expansions. (58 #5680)
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 Morita, Yasuo On the Hurwitz-Lerch L -functions. (56 #315)
 Shiratani, Katsumi On some operators for p -adic uniformly differentiable functions. (56 #8543)
 Sinnott, W. See Coates, John, (50 #7093)
 Volkenborn, Arnt On generalized p -adic integration. (50 #12986)
 Zarhin, Ju. G. Neron coupling and quasicharacters. (Russian) (46 #173)

12B35 Arithmetic and zeta-functions of algebras

- Corwin, Lawrence Representations of division algebras over local fields. 50 #281
 Gelbart, Stephen S. (with Jacquet, H.) A relation between automorphic forms on $GL(2)$

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Jacquet, H. Zeta functions of simple algebras (local theory). 50 #4544

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Solomon, Louis Zeta functions and integral representation theory. 57 #286

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Warner, Garth Zeta functions on the real general linear group. (47 #8768)

12B40 Other analytic theory

Ahlsweide, Rudolf F. (with Bojanic, Ranko) Approximation of continuous functions by p -adic analysis. 52 #10689

Amice, Yvette Limites uniformes de polynômes dans un corps valué complet archimédien. 57 #5965

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Baldassarri, Francesco Una funzione intera p -adica a valori interi. 54 #284

Barsky, Daniel Mesures et éléments analytiques p -adiques. 53 #362

Mesures p -adiques à densité 2. 53 #361

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57 #5967

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Cassou-Nogués, Pierrette Formes linéaires p -adiques et prolongement analytique. 50 #12985

Analogues p -adiques de certaines fonctions arithmétiques. 53 #363

Christol, Gilles Vecteurs de Witt et analyse p -adique. 58 #5603

Diamond, Jack The p -adic log gamma function and p -adic Euler constants. 58 #16264

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Feneyrol-Perrin, Yvette Fonctions analytiques sur un corps algébriquement clos, muni d'une valuation au sens de Krull, et complet. (English summary) 58 #10833

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Fresnel, Jean (with de Mathan, Bernard) Sur la transformation de Fourier p -adique. 53 #13173

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(with de Mathan, Bernard) Algèbre du groupe infini Γ et produit tensoriel de corps valués. 56 #323

(with de Mathan, Bernard) Transformation de Fourier p -adique et produit tensoriel de corps valués. 56 #8542

Fujiwara, Masahiko The number of zeros of polynomials and applications. (Japanese) 58 #10835

Igusa, Jun-ichi Some observations on higher degree characters. 56 #324

Isac, George (with Marinescu, Gheorghe) ★Analiza pe corpuri ultrametrice. (Romanian) [Analysis on ultrametric fields] 56 #11970

Koblitz, Neal I. Interpretation of the p -adic log gamma function and Euler constants using the Bernoulli measure. 58 #10836

Lenski, D. N. Analogues of Viète's formulae for a non-Archimedean normed field. (Russian) 58 #606

A new proof of Strassmann's theorem. (Russian) 58 #607

Mahler, Kurt On certain non-archimedean functions analogous to complex analytic functions. 53 #8025

Marinescu, Gheorghe See Isac, George, 56 #11970

Márki, László (with Szabados, József) Interpolation and best polynomial approximation in the domain of p -adic integers. (Russian summary) 57 #5968

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Müller, Helmut Bemerkungen über stetige Funktionen in einer p -adischen Varietät. 55 #5594

Petrov, E. E. Homogeneous generalized functions in local fields. (Russian) 57 #287

- Homogeneous generalized functions in local fields. (Russian) **58** #16611
- Pisot, Charles** See **Amice, Yvette**, **56** #5510
- Rédei, László** See **Márki, László**, **56** #15619
- Robba, Philippe** See **Groupe d'Étude: Analyse Ultramétrique**, **58** #27917
- Roquette, Peter** On the Riemann p -space of a field. The p -adic analogue of Weierstrass' approximation theorem and related problems. **58** #10837
- Shiratanii, Katsumi** On some operators for p -adic uniformly differentiable functions. **56** #8543
- Stavskii, M. S.** The approximation of continuous functions in a locally compact field. (Russian) **54** #10216
- The approximation of holomorphic functions by polynomials with respect to a Čebyšev system of functions in a locally compact field. (Russian) **54** #10217
- Sunčeleev, R. R.** The structure of the algebra of measures on the group of affine transformations of the p -adic interval. (Russian) **58** #27916
- Szabados, József** See **Márki, László**, **57** #5968
- Tableson, Mitchell H.** The existence of natural field structures for finite dimensional vector spaces over local fields. **54** #5195
- Tsurumi, Kazuyuki** Sur les fonctions analytiques p -adiques et leurs applications aux familles normales. **58** #608
- Van der Poorten, Alfred J.** Zeros of p -adic exponential polynomials. **53** #5543
- Volkenborn, Arnt** On generalized p -adic integration. **50** #12986
- Ein p -adisches Integral und seine Anwendungen. II. (English summary) **48** #11064
- Washington, Lawrence C.** On the self-duality of \mathcal{O}_p . **49** #8971
- Weisman, Carl S.** On p -adic differentiability. **55** #2856
- Woodcock, C. F.** An invariant p -adic integral on Z_p . **50** #4545
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- Paris** See **Groupe d'Étude: Analyse Ultramétrique**, **58** #27917
- Studies in number theory** See **Lenskoï, D. N.**, **58** #606 and **Lenskoï, D. N.**, **58** #607
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- Barsky, Daniel** Analyse p -adique et nombres de Bell. (English summary) (54 #10133)
- Blum, Werner** ★ Über nichtarchimedische Banachalgebren. (55 #3789)
- Chao, Jia Arng** (with Tableson, Mitchell H.) A sub-regularity inequality for conjugate systems on local fields. (49 #3459)
- Diarra, Bertin** Sur les représentations linéaires continues p -adiques du groupe compact Z_p . (English summary) (55 #575)
- (Dwork, Bernard)** See **Robba, Philippe**, (53 #2957)
- Escassut, Alain** T -filtres, ensembles analytiques et transformation Fourier P -adique. (52 #11111)
- See also **Amice, Yvette**, (50 #5363)
- Feneclay-Perrin, Yvette** Ensembles analytiques, éléments et fonctions analytiques sur un corps algébriquement clos, valué au sens de Krull. (English summary) (55 #12944)
- Fresnel, Jean** (with de Mathan, Bernard) L'image de la transformation de Fourier p -adique. (50 #5364)
- (with de Mathan, Bernard) Transformation de Fourier p -adique. (52 #8795)
- Gähler, Siegfried** (with Siddiqi, A. H.; Gupta, S. C.) Contributions to non-Archimedean functional analysis. (52 #11621)
- Gout, Gérard** Sur les fonctions exponentielles des corps locaux. (47 #6654)
- Guerraoui, Mohammed** (with de Mathan, Bernard) Groupes p -réflexifs, et transformation de Fourier p -adique. (48 #9264a)
- Gupta, S. C.** See **Gähler, Siegfried**; et al., (52 #11621)
- Hilliker, David Lee** (with Straus, Ernst G.) Some p -adic versions of Polya's theorem on integer valued analytic functions. (55 #5548)
- Igusa, Jun-ichi** Complex powers and asymptotic expansions. I. Functions of certain types. (50 #254)
- Jain, D. R.** See **Jain, Pawan Kumar**, (55 #319)
- Jain, Pawan Kumar** (with Jain, D. R.) Simultaneous automorphisms in the space of entire functions over non-Archimedean fields. (Serbo-Croatian summary) (55 #319)
- Katz, Nicholas M.** Formal groups and p -adic interpolation. (56 #3319)
- Kirstein, B. H.** Invariant subrings of an induced ring on the 4×4 symplectic group. (Russian) (49 #2969)
- Koblitz, Neal I.** ★ p -adic numbers, p -adic analysis, and zeta-functions. (57 #5964)
- Kohen, A. W.** Sur la transformation de Fourier p -adique. (51 #3799)
- Kôshiba, Yôichi** Elementary notes on p -adic analysis. (54 #10686)
- Lazard, Michel** Polygone de Newton et théorème de préparation. (58 #705)
- de Mathan, Bernard** Dualité et transformation de Fourier p -adiques. (53 #14020)
- Dualité, et transformation de Fourier p -adiques. (53 #14019)
- See also **Guerraoui, Mohammed**, (48 #9264a); **Fresnel, Jean**, (50 #5364) and **Fresnel, Jean**, (52 #8795)
- Onneweer, C. W.** Fractional differentiation on the group of integers of a p -adic or p -series field. (Russian summary) (56 #3576)
- Pavlenko, N. V.** The Radon transformation in the space $G(A)$, where A is a finite commutative ring with identity. (Russian) (58 #17694)
- Radoux, Christian** Arithmétique des nombres de Bell et analyse p -adique. (58 #5499)
- Randé, Bernard** Principauté des idéaux de type fini de $H(D)$. (53 #3357)
- Robba, Philippe** Croissance des solutions d'une équation différentielle homogène, d'après B. Dwork. (55 #8041)
- Prolongement des solutions d'une équation différentielle p -adique. (55 #8042)
- Structure de Frobenius faible pour les équations différentielles du premier ordre. (53 #2957)
- Robert, Alain** A short proof of the Fourier inversion formula. (58 #23337)
- Schöpf, Peter** ★ Der Anziehungsbereich der Fixpunkte einer biholomorphen Abbildung des K^n (K ein vollständig bewerteter Körper). (56 #661)
- Siddiqi, A. H.** See **Gähler, Siegfried**; et al., (52 #11621)

- Stoller, Gerald S.** Form of solutions to the p -adic equation $y' = 0$. (53 #13772)
- Straus, Ernst G.** See **Hilliker, David Lee**, (55 #5548)
- Tableson, Mitchell H.** The failure of even conjugate characterizations of H^1 on local fields. (58 #6941)
- See also **Chao, Jia Arng**, (49 #3459)
- Weisman, Carl S.** Nonarchimedean harmonic analysis and analytic functions. (50 #7955)
- Some congruences for binomial coefficients. (57 #3055)
- Wells, Benjamin B., Jr.** Rearrangements of functions on the ring of integers of a p -series field. (58 #6942)

12B99 None of the above, but in this section

- Gout, Gérard** Sur les fonctions exponentielles des corps locaux. **47** #6654
- Kochen, Simon** The model theory of local fields. **58** #27918
- Phillips, Keith** A note on local field duality. **57** #16265
- Roquette, Peter** A criterion for rational places over local fields. **56** #325
- Vostokov, S. V.** Orthogonal basis of a local field. (Russian) **49** #2677
- An explicit formula for pairing in formal modules. (Russian) **58** #16612
- Wagner, Carl G.** Differentiability in local fields of prime characteristic. **51** #12799

Secondary classifications:

- Adolphson, Alan** An index theorem for p -adic differential operators. (52 #8127)
- Barannik, Ju. L.** S -fields that arise in the decomposition of the rational group algebras of finite groups of order $p^a q^b$. (Russian) (Not reviewed)
- Fontaine, Jean-Marc** Points d'ordre fini d'un groupe formel sur une extension non ramifiée de Z_p . (55 #12731)
- Rink, R.** Eine Klasse unendlicher verallgemeinerter André-Ebenen. (57 #10586)

12Cxx Finite fields and finite commutative rings

Secondary classifications:

- Webb, William A.** Waring's problem in $\text{GF}[q, x]$. (47 #1745)

12C05 Polynomials

- Abian, Alexander** On solvability of infinite systems of polynomial equations over a finite ring. **47** #3353
- Agou, Simon** Sur la décomposition de certains idéaux premiers. **47** #8492
- Polynômes sur un corps fini. **45** #3363
- Sur l'irréductibilité de certains polynômes à plusieurs indéterminées et à coefficients dans un corps fini. **52** #8097
- Critères d'irréductibilité des polynômes composés à coefficients dans un corps fini. **54** #7436
- Factorisation sur un corps fini K des polynômes composés $f(X')$ lorsque $f(X)$ est un polynôme irréductible de $K[X]$. (English summary) **53** #8026
- Factorisation sur un corps fini F_p des polynômes composés $f(X')$ lorsque $f(X)$ est un polynôme irréductible de $F_p[X]$. **54** #12721
- Factorisation des polynômes à coefficients dans un corps fini. **55** #314
- Factorisation sur un corps fini F_p des polynômes composés $f(X^{p^r} - aX)$ lorsque $f(X)$ est un polynôme irréductible de $F_p[X]$. **57** #12467
- Irréductibilité des polynômes $f(X^{p^r} - aX)$ sur un corps fini F_{p^m} . **55** #12707
- Polynômes irréductibles primitifs à coefficients dans un corps fini. **58** #27919
- Bajoga, B. G.** Generation of irreducible polynomials from trinomials over $\text{GF}(2)$. II. **58** #609
- Bakoğlu, Hüsamettin** On the dependence among the polynomials of the polynomial ring $\text{GF}(2)$. (Turkish summary) **58** #16613
- Beard, Jacob T. B., Jr.** Computing in $\text{GF}(q)$. **50** #4546
- (with West, Karen I.) Factorization tables for $x^n - 1$ over $\text{GF}(q)$. **51** #451
- (with West, Karen I.) Some primitive polynomials of the third kind. **51** #3125
- (with West, Karen I.) Factorization tables for trinomials over $\text{GF}(q)$. **52** #13753
- (E **55** #310)
- (with West, Karen I.) Addendum to: "Factorization tables for trinomials over $\text{GF}(q)$ " (Math. Comp. **30** (1976), no. 133, 179-183). **55** #310
- Unitary perfect polynomials over $\text{GF}(q)$. (Italian summary) **58** #5604
- Bertrand, Daniel** Le théorème d'Ax et Kochen. **52** #13754
- Bossen, Douglas C.** See **Hong, Se June**, **51** #10307
- Brawley, J. V.** (with Carlitz, Leonard; Vaughan, Theresa P.) Linear permutation polynomials with coefficients in a subfield. **49** #2678
- (with Carlitz, Leonard; Levine, Jack) Scalar polynomial functions on the $n \times n$ matrices over a finite field. **51** #12800
- Polynomials over a ring that permute the matrices over that ring. **52** #13755
- The number of polynomial functions which permute the matrices over a finite field. **54** #12722
- Bruen, Aiden A.** Permutation functions on a finite field. **46** #9009
- (with Levinger, Bernard W.) A theorem on permutations of a finite field. **48** #8452
- Carlitz, Leonard** Correspondences in a finite field. **52** #10690
- (with Hayes, David R.) Permutations with coefficients in a subfield. **46** #3490
- Correspondences in a finite field. II. **51** #8084
- Correspondences in a finite field. I. **51** #8083
- A theorem on lacunary polynomials in a finite field. **52** #13756
- A note on sums of three squares in $\text{GF}[q, x]$. **50** #12987
- (with Long, Andrew F., Jr.) The factorization of $Q(L(x_1), \dots, L(x_k))$ over a finite field where $Q(x_1, \dots, x_k)$ is of first degree and $L(x)$ is linear. **55** #5595
- Some theorems on polynomials over a finite field. **55** #311
- Functions and correspondences in a finite field. **54** #12723
- See also **Brawley, J. V.**; et al., **49** #2678 and **Brawley, J. V.**; et al., **51** #12800
- Cazacu, C.** (with Simovici, Dan A.) A new approach of some problems concerning

- polynomials over finite fields. **48** #3925
- Cicchese, Marcello Sulle cubiche di un piano lineare $S_{2,q}$, con $q \equiv i \pmod{3}$. (English summary) **45** #228
- Claassen, H. L. The group of units in $\text{GF}(q)[x]/(a(x))$. **56** #11971
- Clark, W. Edwin (with Liang, Joseph J.) Enumeration of finite commutative chain rings. **49** #2679
- Cohen, Stephen D. The distribution of polynomials over finite fields. II. **45** #229
Uniform distribution of polynomials over finite fields. **46** #9010
The values of a polynomial over a finite field. **50** #282
- Dodunekov, Stefan M. Essentially distinct irreducible polynomials over finite fields. (Russian. English summary) **53** #364
- (Földes, L.) See Rédei, László, **50** #4548
- Fried, Michael D. On a theorem of MacCluer. **49** #2680
- Garakov, G. A. Tables of irreducible polynomials over the field $\text{GF}(p)$ ($p < 11$). (Russian. Armenian summary) **53** #2905
See also Varšamov, R. R., **52** #10692
- Giudici, Reinaldo E. (with Margaglio, Claudio) On the factorization of polynomials of the fourth degree. (Spanish. English summary) **58** #10838
- Gordon, J. A. Very simple method to find the minimum polynomial of an arbitrary nonzero element of a finite field. **56** #11972
- Gwehenberger, G. Über den Grad von rationalen Funktionen, die Permutationen darstellen. **45** #3364
- Hanneken, C. B. Irreducible congruences over $\text{GF}(2)$. **50** #283
- Hayes, David R. The Galois group of $x^n + x - 1$. **47** #3354
See also Carlitz, Leonard, **46** #3490
- Heisler, Brother Joseph Diagonal forms over finite fields. **48** #11065
- Hong, Se June (with Bossen, Douglas C.) On some properties of self-reciprocal polynomials. **51** #10307
- Hule, Harald (with Müller, Winfried B.) Cyclic groups of permutations induced by polynomials over Galois fields. (Spanish) **48** #8453
- Ikai, Takeo (with Kosako, Hideo; Kojima, Yoshiaki) Subsequences in linear recurring sequences. **46** #9011
- Jeger, Max Irreduzible Polynome als kombinatorische Figuren. **48** #8454
- Johnsen, John On the large sieve method in $\text{GF}[q, x]$. **46** #1761
- Jung, Fuanglada Riddhagni Solutions of some systems of equations over a finite field with applications to geometry. **45** #3365
- Kojima, Yoshiaki See Ikai, Takeo; et al., **46** #9011
- Kosako, Hideo See Ikai, Takeo; et al., **46** #9011
- Leonard, Philip A. (with Williams, Kenneth S.) Quartics over $\text{GF}(2^n)$. **46** #7203
Factorizations of general polynomials. **51** #3126
A note on cubics over $\text{GF}(2^n)$. **51** #12801
- Levine, Jack See Brawley, J. V.; et al., **51** #12800
- Levinger, Bernard W. See Bruen, Aiden A., **48** #8452
- Liang, Joseph J. See Clark, W. Edwin, **49** #2679
- Lidl, Rudolf Über Permutationspolynome in mehreren Unbestimmten. **46** #5290
Über die Darstellung von Permutationen durch Polynome. **46** #9012
(with Wells, Charles) Chebyshev polynomials in several variables. **46** #5291
Tschebyscheffpolynome und die dadurch dargestellten Gruppen. **47** #6655
Reguläre Polynome über endlichen Körpern. **53** #365
Einige ungelöste Probleme bei endlichen Körpern. **52** #5631
(with Müller, Winfried B.) Über Permutationsgruppen die durch
Tschebyscheff-Polynome erzeugt werden. **54** #5196
- Long, Andrew F., Jr. Factorization of irreducible polynomials over a finite field with the substitution $x^{q^t} - x$ for x . **49** #254
Factorization of irreducible polynomials over a finite field with the substitution $x^{p^t} - x$ for x . **47** #1781
A theorem on factorable irreducible polynomials in several variables over a finite field with the substitution $x_i^{q^t} - x_i$ for x_i . **50** #12988
(with Vaughan, Theresa P.) Factorization of $Q(h(T)(x))$ over a finite field, where $Q(x)$ is irreducible and $h(T)(x)$ is linear. II. **56** #326
(with Vaughan, Theresa P.) Factorization of $Q(h(T)(x))$ over a finite field where $Q(x)$ is irreducible and $h(T)(x)$ is linear. I. **53** #2906
See also Carlitz, Leonard, **55** #5595
- Margaglio, Claudio See Giudici, Reinaldo E., **58** #10838
- Marshall, Murray A. (with Ramage, Garry) Zeros of polynomials over finite principal ideal rings. **50** #12989
- Mignotte, Maurice Un algorithme sur la décomposition des polynômes dans un corps fini. (English summary) **52** #10691
Factorisation des polynômes sur un corps fini. **55** #12708
- Mortimer, Brian C. (with Williams, Kenneth S.) Note on a paper of S. Uchiyama. **51** #452
- Mossige, Svein Table of irreducible polynomials over $\text{GF}[2]$ of degrees 10 through 20. **47** #1782
- Mullen, Gary L. Equivalence classes of functions over a finite field. **54** #2626
Equivalence classes of polynomials over finite fields. **55** #312
Permutation polynomials in several variables over finite fields. **55** #313
- Müller, Winfried B. Über eine Klasse von durch Dickson-Polynome dargestellten Gruppen. **50** #4547 (EA 52)
See also Hule, Harald, **48** #8453 and Lidl, Rudolf, **54** #5196
- Niederreiter, Harald Orthogonal systems of polynomials in finite fields. **45** #230
- Nöbauer, Wilfried Darstellungen von Permutationen durch Polynome und rationale Funktionen. **51** #5562
- Prepelitǎ, Valeriu The number of linear systems over finite fields. (Romanian. French summary) **58** #10839
- Ramage, Garry See Marshall, Murray A., **50** #12989
- Rédei, László ★ Lückenhafte Polynome über endlichen Körpern. **45** #3366
★ Lacunary polynomials over finite fields. **50** #4548
- Rosenberg, Ivo G. Polynomial functions over finite rings. (Serbo-Croatian summary) **52** #352
- Sergeev, È. A. The splitting of the polynomials $f_p(x)$ over finite fields. (Russian) **56** #2970
- Shader, Leslie E. On the number of solutions of congruences and equations in $\text{GF}[q]$. **47** #190
On the number of solutions of a congruence in $\text{GF}[q, x]$. **48** #2117
- Simovici, Dan A. See Cazacu, C., **48** #3925
- Singh, Sahib The number of decompositions of an integer as a sum of two squares. $\text{GF}(p^n)$. **50** #284
- Singmaster, David On polynomial functions (mod m). **51** #3127
- Stahnke, Wayne Primitive binary polynomials. **48** #6064
- Tu, Gui Zhang The structure of Q -matrices and the reducibility of polynomials over Galois field. (Chinese) **56** #327
- Van Meter, Robert G. Generalized k -linear equations over a finite field. **47** #6656
The number of solutions of certain equations over a finite field. **48** #3926
- Varšamov, R. R. (with Garakov, G. A.) On the theory of self-dual polynomials over Galois field. (Russian. Armenian summary) **52** #10692
Operator substitutions in a Galois field, and their application. (Russian) **48** #3927
- Vaughan, Theresa P. Polynomials and linear transformations over finite fields. **49** #10668
See also Brawley, J. V.; et al., **49** #2678; Long, Andrew F., Jr., **53** #2906
- Long, Andrew F., Jr., **56** #326
- Wagner, Carl G. On the factorization of some polynomial analogues of binomial coefficients. **47** #6657
Linear pseudo-polynomials over $\text{GF}[q, x]$. **51** #453
Polynomials over $\text{GF}(q, x)$ with integral-valued differences. **54** #5197
- Webb, William A. Numerical results for Waring's problem in $\text{GF}[q, x]$. **48** #3928
On the representation of polynomials over finite fields as sums of powers of irreducibles. **50** #285
- Wells, Charles Polynomials over finite fields which commute with translations. **50** #327
See also Lidl, Rudolf, **46** #5291
- West, Karen I. See Beard, Jacob T. B., Jr., **51** #451; Beard, Jacob T. B., Jr., **51** #3125; Beard, Jacob T. B., Jr., **52** #13753 (E 55 #310) and Beard, Jacob T. B., Jr., **55** #310
- Willett, Michael C. Characteristic m -sequences. **52** #10693
- Williams, Kenneth S. Note on the number of solutions of $f(x_1) = f(x_2) = \dots = f(x_n)$ over a finite field. **47** #6658
Products of polynomials over a finite field. **48** #2118
Note on cubics over $\text{GF}(2^n)$ and $\text{GF}(3^n)$. **52** #5632
See also Leonard, Philip A., **46** #7203 and Mortimer, Brian C., **51** #452
- Zlerler, Neal A conversion algorithm for logarithms on $\text{GF}(2^n)$. **50** #287
- Secondary classifications:
- Agarionov, D. A. See Dyn'kin, V. N., (**47** #3098)
- Bajoga, B. G. (with Walbesser, W. J.) Generation of irreducible polynomials from trinomials over $\text{gf}(2)$. I. (**57** #5397)
- Barnes, C. W. A construction for cyclotomic and related polynomials by means of Chebyshev polynomials. (**58** #5607)
- Bassalygo, L. A. A remark on fast multiplication of polynomials over Galois fields. (Russian) (**57** #18204)
- Beard, Jacob T. B., Jr. The number of matrix fields over $\text{GF}(q)$. (**50** #2113)
A rational canonical form for matrix fields. (**50** #2114)
- Brenner, Joel (with Carlitz, Leonard) Covering theorems for finite nonabelian simple groups. III. Solutions of the equation $ax^2 + bt^2 + yt^{-2} = a$ in a finite field. (**56** #15754)
- Car, Mireille Le problème de Waring pour l'anneau des polynômes sur un corps fini. (**53** #5512)
- Carlitz, Leonard See Brenner, Joel, (**56** #15754)
- Cherly, Jørgen Addition theorems in $F_q[x]$. (**58** #22004a)
Addition theorems in $F_q[x]$. (**58** #22004b)
- Davenport, Harold A property of polynomials over a finite field. (**52** #8054)
- Dyn'kin, V. N. (with Agarionov, D. A.) A method of decomposition of polynomials in a finite field. (Russian) (**47** #3098)
- Friedlander, John B. A note on primitive roots in finite fields. (**47** #4907)
- Gabriel, Richard Drei-Nachrichten-Probleme in verallgemeinerter Definition. (**58** #33495)
- Gallagher, Patrick X. The large sieve and probabilistic Galois theory. (**48** #11020)
- Garakov, G. A. See Varšamov, R. R., (**45** #6510 (EA 52))
- Golomb, Solomon W. (with Lempel, Abraham) Second order polynomial recursive sequences. (**57** #12446)
- Helleseth, Tor Some results about the cross-correlation function between two maximal length linear sequences. (**55** #2341)
- Herget, Wilfried Über die Funktionalgleichung $f(x) = d^{m-1} \sum_{i=0}^{m-1} f(x+i/d)$ in den Körpern \mathbb{Z}_p . (English summary) (**58** #5481)
- Judanina, A. B. Tensorial generalizations of radical codes. (Russian) (**56** #11513)
- Kautschitsch, Hermann Über vertauschbare Polynome mit vorgegebenen Gradzahlen. (**55** #2860)
- Lempel, Abraham Analysis and synthesis of polynomials and sequences over $\text{GF}(2)$. (**47** #6659)
See also Golomb, Solomon W., (**57** #12446)
- Lewis, Donald J. (with Schuur, Susan E.) Varieties of small degree over finite fields. (**48** #3965)
- Reed, Irving S. (with Truong, T. K.) The use of finite fields to compute convolutions. (**53** #10463)
- Rosenberg, Ivo G. Characteristic polynomials in $\text{GF}(2)$ of zero-one inequalities and equations. (**52** #2272)
- Rothaus, O. S. On "bent" functions. (**53** #7797)
- Šapiro, A. P. On the question of algebraic random number generators. (Russian) (**52** #5193)
- Schuur, Susan E. See Lewis, Donald J., (**48** #3965)
- Stepanov, S. A. Congruences with two unknowns. (Russian) (**47** #3398)
The constructive method in the theory of equations over finite fields. (Russian) (**49** #2745)

Truong, T. K. See Reed, Irving S., (53 #10463)

Ulrich, Karl-Heinz Über Endomorphismen, deren Minimalpolynom mit dem charakteristischen Polynom übereinstimmt. (58 #712)

Varšamov, R. R. (with Garakov, G. A.) On the theory of selfdual polynomials over a Galois field. (Russian) (45 #6510 (EA 52))

Certain questions in the constructive theory of the reducibility of polynomials over finite fields. (Russian) (58 #4622a (E 58 #4622b))

Erratum: "Certain questions in the constructive theory of the reducibility of polynomials over finite fields" (Problemy Kibernet. No. 27 (1973), 127–134). (Russian) (58 #4622b)

Walbesser, W. J. See Bajoga, B. G., (57 #5397)

Webb, William A. Uniformly distributed functions in $\text{GF}[q, x]$ and $\text{GF}(q, x)$. (48 #2099)

Willett, Michael C. Factoring polynomials over a finite field. (58 #4623)

Yamada, Toshihiko The Schur subgroup of a real quadratic field. II. (52 #3106)

12C10 Linear sequences

Berlekamp, Elwyn R. (with Fredricksen, H. M.; Proto, R. C.) Minimum conditions for uniquely determining the generator of a linear sequence. (54 #285 (E 54 #286))

See also Dillon, John F.; et al., (54 #286)

Diderrich, George T. (with Mann, Henry B.) Representations by k -th powers in $\text{GF}(q)$. (45 #6791)

Dillon, John F. (with Morris, Robert A.) On a paper of Berlekamp, Fredricksen and Proto: "Minimum conditions for uniquely determining the generator of a linear sequence" (Utilitas Math. 5 (1974), 305–315). (54 #286)

Fredricksen, H. M. See Berlekamp, Elwyn R.; et al., (54 #285 (E 54 #286)) and Dillon, John F.; et al., (54 #286)

Kempel, Abraham Analysis and synthesis of polynomials and sequences over $\text{GF}(2)$. (47 #6659)

Mann, Henry B. See Diderrich, George T., (45 #6791)

Morris, Robert A. See Dillon, John F., (54 #286)

Proto, R. C. See Berlekamp, Elwyn R.; et al., (54 #285 (E 54 #286)) and Dillon, John F.; et al., (54 #286)

Secondary classifications:

Surböck, Franz (with Weinrichter, Hans) Interlacing properties of shift-register sequences with generator polynomials irreducible over $\text{GF}(p)$. (58 #20801)

Weinrichter, Hans See Surböck, Franz, (58 #20801)

12C15 Arithmetic

Albis González, Víctor S. A remark on primitive roots and ramification. (49 #255)

Bergum, Gerald E. See Gerjets, Marilyn S., (57 #12468)

Dodson, M. M. On Waring's problem in $\text{GF}[p]$. (45 #1880)

Gerjets, Marilyn S. (with Bergum, Gerald E.) The distribution of primitive roots in fields of order p^2 . (57 #12468)

Giudici, Reinaldo E. Quadratic residues in $\text{GF}(p^2)$. (51 #5563)

Residui quadratici in un campo di Galois. (English summary) (48 #8455)

Golomb, Solomon W. (with Reed, Irving S.; Truong, T. K.) Integer convolutions over the finite field $\text{GF}(3 \cdot 2^n + 1)$. (58 #22026)

Joly, Jean-René Équations et variétés algébriques sur un corps fini. (48 #6065)

Muskat, Joseph B. (with Street, Anne Penfold) Sum-free cyclotomic classes in finite fields. (49 #256)

Nöbauer, Wilfried Compatible and conservative functions on residue-class rings of the integers. (55 #12709)

Porter, A. Duane Systems of four equations with a matrix application in a finite field. (46 #1762)

Reed, Irving S. (with Truong, T. K.) Convolutions over residue classes of quadratic integers. (55 #8010 (E 57 #5395))

See also Golomb, Solomon W.; et al., (58 #22026)

Singh, Sahib Stufe of a finite field. (50 #2131)

Analysis of each integer as sum of two cubes in a finite integral domain. (53 #13174)

Small, Charles Sums of powers in large finite fields. (58 #5605)

Street, Anne Penfold See Muskat, Joseph B., (49 #256)

Tatuzawa, Tikao The Chevalley-Azumaya theorem. (Japanese) (58 #5606)

Truong, T. K. See Reed, Irving S., (55 #8010 (E 57 #5395)) and Golomb, Solomon W.; et al., (58 #22026)

Secondary classifications:

Benjaourhit, Boonsieng (with Reed, Irving S.) On the fundamental structure of Galois switching functions. (58 #4654)

Bovey, John A new upper bound for Waring's problem (mod p). (58 #21983)

Dodson, M. M. (with Tietäväinen, Aimo) A note on Waring's problem in $\text{GF}(p)$. (54 #5147)

Eplett, W. J. R. A result on tournaments with an application to counting. (55 #12536)

Krishnamurthy, E. V. Matrix processors using p -adic arithmetic for exact linear computations. (57 #7963)

Kuipers, Lauwerens A remark on asymptotic distribution in $\text{GF}[p^r, x]$. (50 #9824)

Leonard, Philip A. A note on cubics over $\text{GF}(2^n)$. (51 #12801)

Long, Calvin T. (with Webb, William A.) Normality in $\text{GF}(q, x)$. (Italian summary) (52 #13709)

Polliard, J. M. Implementation of number-theoretic transforms. (54 #7099)

Reed, Irving S. See Benjaourhit, Boonsieng, (58 #4654)

Small, Charles Solution of Waring's problem mod n . (55 #12671)

Stepanov, S. A. Equations over finite fields. (Russian) (55 #12725)

Tietäväinen, Aimo Note on Waring's problem (mod p). (52 #8012)

See also Dodson, M. M., (54 #5147)

Webb, William A. See Long, Calvin T., (52 #13709)

12C20 Cyclotomy

Alderson, Helen Popova On the septic character of 2 and 3. (48 #2119)

Barnes, C. W. A construction for cyclotomic and related polynomials by means of the Chebyshev polynomials. (58 #5607)

Kutzko, Philip C. The cyclotomy of finite commutative P.I.R.'s. (51 #12802)

Leonard, Philip A. (with Williams, Kenneth S.) A Diophantine system of Dickson. (Italian summary) (51 #10308)

(with Williams, Kenneth S.) The cyclotomic numbers of order seven. (51 #8085)

MacWilliams, F. Jessie (with Odlyzko, Andrew M.) Pelikan's conjecture and cyclotomic cosets. (54 #12724)

McEliece, Robert J. (with Rumsey, Howard C., Jr.) Euler products, cyclotomy, and coding. (45 #8638)

Odlyzko, Andrew M. See MacWilliams, F. Jessie, (54 #12724)

Rumsey, Howard C., Jr. See McEliece, Robert J., (45 #8638)

Storer, Thomas Extensions of cyclotomic theory. (47 #4975)

Szekeres, George Cyclotomy and complementary difference sets. (45 #209)

van der Waall, Robert William On a property of a certain permutation. (49 #7242)

Williams, Kenneth S. Elementary treatment of a quadratic partition of primes $p \equiv 1 \pmod{7}$. (50 #4549)

See also Leonard, Philip A., (51 #8085) and Leonard, Philip A., (51 #10308)

Zamyslov, V. E. A certain bilinear symmetric form in a linear space over a finite field. (Russian) (58 #10840)

Secondary classifications:

Barkan, Philippe Partitions quadratiques et cyclotomie. (53 #5459)

Billington, Elizabeth, J. (with Street, Anne Penfold; Seberry, Jennifer) Designs from cyclotomy. (55 #130)

Grossman, Edward H. On the solutions of Diophantine equations in units. (54 #7426)

Lam, Clement Wing Hong Cyclotomy and addition sets. (54 #10182)

Niederreiter, Harald (with Shiue, Jau Shyong) Equidistribution of linear recurring sequences in finite fields. (57 #3085)

Ojala, Timo Sums of roots of unity. (52 #10663)

Perel'muter, G. I. Estimation of a multiple sum with the Legendre symbol for a polynomial of odd degree. (Russian) (56 #3019)

Seberry, Jennifer See Billington, Elizabeth, J.; et al., (55 #130)

Shiue, Jau Shyong See Niederreiter, Harald, (57 #3085)

Street, Anne Penfold (with Whitehead, Earl Glen, Jr.) Sum-free sets, difference sets and cyclotomy. (50 #4336)

See also Billington, Elizabeth, J.; et al., (55 #130)

Whitehead, Earl Glen, Jr. See Street, Anne Penfold, (50 #4336)

Ziegenbalg, Jochen Gruppen von Nullteilern in Restklassenringen. (58 #10679)

12C25 Exponential sums

Carlitz, Leonard A theorem on linear exponential sums. (56 #11973)

Helversen-Pasotto, Anna L'indentité de Barnes pour les corps finis. (English summary) (57 #16266)

Porter, A. Duane An exponential sum in a finite field. (48 #6066)

Shader, Leslie E. Closed form expressions for several Ramanujan sums. (47 #3355)

Williams, Kenneth S. Exponential sums over $\text{GF}(2^n)$. (47 #1783)

Secondary classifications:

Amerbaev, V. M. (with Žautykov, A. O.) The quadratic residue number system. (Russian. Kazakh summary) (58 #5488)

Dolins'ka, N. A. (with Sobornikov, Ju. P.) Transformation of the matrices of multiplicative modular operations to additive form. (Russian. English summary) (58 #480)

Kiefe, Catarina Sets definable over finite fields: their zeta-functions. (54 #10272)

Odoni, R. W. K. The statistics of Weil's trigonometric sums. (50 #2111)

Sobornikov, Ju. P. See Dolins'ka, N. A., (58 #480)

Žautykov, A. O. See Amerbaev, V. M., (58 #5488)

12C30 Structure theory

Abian, Alexander (with Floyd, Denis) Rings satisfying Wilson's equality. (56 #328)

Błaszczak, Bronisława Another proof that a finite integral domain is a field. (Polish summary) (46 #3491)

Cameron, Peter J. (with Hall, J. I.; van Lint, Jacobus H.; Springer, Tonny Albert; van Tilborg, Henricus Carolus Adrianus) Translates of subgroups of the multiplicative group of a finite field. (53 #2907)

Floyd, Denis See Abian, Alexander, (56 #328)

Hall, J. I. See Cameron, Peter J.; et al., (53 #2907)

Heuzé, Guy Sur les corps finis. (English summary) (51 #10309)

Hohler, Peter Eine zahlentheoretische Konstruktion der Galois-Felder $\text{GF}(p^2)$. (54 #2627)

Kopfermann, Klaus Ultraprodukte endlicher Körper. (45 #6792)

van Lint, Jacobus H. See Cameron, Peter J.; et al., (53 #2907)

Springer, Tonny Albert See Cameron, Peter J.; et al., (53 #2907)

van Tilborg, Henricus Carolus Adrianus See Cameron, Peter J.; et al., (53 #2907)

Secondary classifications:

Akuskii, I. Ja. (with Kazangapov, A. N.) Geometry in the residue space. (Russian) (57 #17500)

Elizarov, V. P. Finite rings. (Russian) (55 #10514)

Kazangapov, A. N. See Akuskii, I. Ja., (57 #17500)

Neumaier, Arnold Taktische Konfigurationen und die Gleichung $at^2 + bt^2 = c$ in kommutativen Ringen mit Eins. (58 #306)

12C99 None of the above, but in this section

- Ceccherini, Pier Vittorio** Some new results on certain finite structures. (Italian summary) **53** #13175
- Delsarte, P.** (with McEliece, Robert J.) Zeros of functions in finite abelian group algebras. **53** #2908
- Dimitrov, Dimit'r** See **Dočev, Kiril Gečov**, **46** #5292
- Dočev, Kiril Gečov** (with Dimitrov, Dimit'r) Certain properties of homogeneous equations in finite fields. (Bulgarian. French summary) **46** #5292
- Gilezan, Koriolan** L'espace vectoriel pseudo-boléen généralisé. **54** #287
- McConnel, R.** Functions over finite fields satisfying coordinate ψ -conditions. **46** #1763
- McEliece, Robert J.** See **Delsarte, P.**, **53** #2908
- Ratner, Phillip** An isomorphism of infinite Galois theory. (Italian summary) **58** #16614
- Reed, Irving S.** (with Truong, T. K.) Complex integer convolutions over a direct sum of Galois fields. **55** #8011
- Truong, T. K.** See **Reed, Irving S.**, **55** #8011
- Varšamov, R. R.** A certain linear operator in a Galois field, and its applications. (Russian) (Not reviewed; See **MR 48** #3927)

Secondary classifications:

- Baum, Leonard E.** (with Herzberg, Norman P.; Lomonaco, S. J., Jr.; Sweet, Melvin M.) Fields of almost periodic sequences. (**58** #258)
- Burde, Klaus** p -dimensionale Vektoren modulo p . II. Anwendungen. (**52** #10763)
- Fray, R. D.** (with Gilmer, Robert) On solvability by radicals of finite fields. (**47** #8497)
- Fulton, John D.** Representations by Hermitian forms in a finite field of characteristic two. (**58** #10958)
- Gilmer, Robert** On solvability by radicals of field extensions. (**47** #8496)
- See also **Fray, R. D.**, (**47** #8497)
- Herzberg, Norman P.** See **Baum, Leonard E.**; et al., (**58** #258)
- Knopfmacher, John** On the asymptotic enumeration of finite rings and modules. (**53** #5508)
- Finite modules and algebras over rings of algebraic functions. (**54** #12684)
- Lomonaco, S. J., Jr.** See **Baum, Leonard E.**; et al., (**58** #258)
- Porter, A. Duane** (with Riveland, A. Allan) A generalized skew equation over a finite field. (**52** #13887)
- Riveland, A. Allan** See **Porter, A. Duane**, (**52** #13887)
- Sweet, Melvin M.** See **Baum, Leonard E.**; et al., (**58** #258)

12Dxx Real and complex fields

Secondary classifications:

- Barnett, Stephen** See **Maroulas, John**, (**58** #26393)
- Maroulas, John** (with Barnett, Stephen) Some new results on the qualitative theory of generalized polynomials. (**58** #26393)

12D05 Polynomials: factorization

- Barbălat, Ion** On a certain competition problem. (Romanian) **58** #22027
- Barnett, Stephen** Greatest common divisor of several polynomials. **45** #231
- Bayod, José Manuel** A proof of the fundamental theorem of algebra. (Spanish) **58** #10841
- Bose, Nirmal K.** A criterion to determine if two multivariable polynomials are relatively prime. **50** #288
- Emre, Erol** (with Hüseyin, Özyay) Relative primeness of multivariable polynomials. **52** #10694
- Fridman, B. L.** A certain characterization of the polynomial endomorphisms of \mathbb{C}^2 . (Russian) **48** #11066
- Hüseyin, Özyay** See **Emre, Erol**, **52** #10694
- Iwata, Hiroshi** A property of some polynomials. **45** #6790
- Kallenberg, Olav** Stability in polynomial factorization. **54** #5198
- Kantardžieva, Elena** A certain test for the irreducibility of integer polynomials in the field of rational numbers. (Bulgarian. Russian and German summaries) **48** #11067
- Kovacic, Jerald** An Eisenstein criterion for noncommutative polynomials. **45** #1885
- Lal, Manohar** On the separability of multivariable polynomials. **58** #16615
- Lidl, Rudolf** Über die Struktur einer durch Tschebyscheffpolynome in zwei Variablen dargestellten Permutationsgruppe. **52** #13757
- MacCluer, C. R.** Non-principal divisors among the value of polynomials. **45** #3359
- Mignotte, Maurice** An inequality about factors of polynomials. **50** #7102
- Pirgov, Dimit'r** On the irreducibility over the field of rational numbers of two classes of integer-valued polynomials. (Bulgarian. Russian and English summaries) **46** #9013
- On a certain theorem of G. Pólya on the irreducibility of integer polynomials over the field of rational numbers. (Bulgarian. Russian and German summaries) **45** #6793
- (with Tokarev, Dimit'r) Two classes of irreducible integer-valued polynomials over the field of rational numbers. (Bulgarian. Russian and French summaries) **46** #7204
- (with Tokarev, Dimit'r) A certain class of irreducible polynomials. (Bulgarian. Russian and French summaries) **46** #7205
- Richter, Bernd** Die Primfaktorzerlegung der Werte der Kreisteilungspolynome. **46** #1764
- Rjaben'kii, V. S.** A definition of division with remainder for polynomials of several arguments. (Russian) **45** #1881
- Strelitz, Shlomo** On the Routh-Hurwitz problem. **57** #288
- Tang, L.** When do polynomials have imaginary roots? **56** #5512
- Tokarev, Dimit'r** See **Pirgov, Dimit'r**, **46** #7204 and **Pirgov, Dimit'r**, **46** #7205
- Willett, Michael C.** The minimum polynomial for a given solution of a linear recursion. **45** #1882
- Yang, Chung Chun** A problem on polynomials. **56** #15620

Secondary classifications:

- Barbançon, Gérard** Théorème de Bôcher pour les fonctions différentiables. (**47** #589)
- Barnett, Stephen** Regular greatest common divisor of two polynomial matrices. (**45** #5147)
- Bose, Nirmal K.** An algorithm for GCF extraction from two multivariable polynomials. (**58** #4658)
- See also **Chakrabarti, Satyabrata**; et al., (**57** #19112)
- Carlitz, Leonard** A polynomial related to the cyclotomic polynomial. (**47** #4979)
- Chakrabarti, Satyabrata** (with Bose, Nirmal K.; Mitra, Sanjit K.) Sum and product separabilities of multivariable functions and applications. (**57** #19112)
- Korsakov, G. F.** A generalization of a theorem of Liénard and Chipart. (Russian) (**57** #15677)
- Lin, V. Ja.** Fourth degree polynomials over the algebra of continuous functions. (Russian) (**50** #14834)
- Mitra, Sanjit K.** See **Chakrabarti, Satyabrata**; et al., (**57** #19112)
- Terkelsen, Frode** The fundamental theorem of algebra. (**54** #2931)
- Weiss, Laura** The fundamental theorem of algebra on rational H -spaces. (**52** #11902)

12D10 Polynomials: location of zeros [Algebraic theorems; for the analytic theory, see 26A78, 30A08.]

- Ahn, S. M.** See **Jury, Eliahu I.**, **55** #5598
- Anderson, B. D. O.** (with Jury, Eliahu I.) On the reduced Hermite and reduced Schur-Cohn matrix relationships. **49** #7243
- Balamacek-Majchrzak, Irena** Estimation of the number of real zeros of certain polynomials. (Polish. English summary) **52** #5633
- Balins'kii, A. I.** Expressions for the resultant and discriminant of polynomials. (Russian) **58** #610
- See also **Pidstrigač, Ja. S.**; et al., **52** #10696
- Barnett, Stephen** Some applications of matrices to location of zeros of polynomials. **48** #2120
- Bartocci, Umberto** Su di una congettura di Sudbery. (English summary) **52** #10695
- Burgelea, Ana** On the numbering of the roots of a family of generic polynomials. (Romanian. English summary) **57** #12469
- Buzatu, Ion** Relations for polynomials in $R[x]$. (Romanian) **57** #12470
- Cantor, David G.** (with Galyean, Paul H.; Zimmer, Horst Günter) A continued fraction algorithm for real algebraic numbers. **48** #8456
- Čevskii, V. M.** Domains that contain at least one zero of an algebraic polynomial of degree n . (Russian) (See **RŽMat 1972** #6 B852)
- Geometric properties of the zeros of generalized polynomials. (Russian) (See **RŽMat 1972** #7 B103)
- Collins, George E.** (with Horowitz, Ellis) The minimum root separation of a polynomial. **49** #10669
- Connes, Alain** Ordres faibles et localisation de zéros de polynômes. **55** #5596
- See also **Pathiaux, Martine**, **53** #5545
- Čubarov, M. A.** The Routh-Hurwitz problem and sequences of polynomial remainders. (Russian) **58** #10842
- Farebrother, R. W.** Recursive relations for the Samuelson transformation coefficients. **50** #4550
- Fried, Michael D.** On the diophantine equation $f(y) - x = 0$. **45** #3368
- Galyean, Paul H.** See **Cantor, David G.**; et al., **48** #8456
- Georgieva, Nadežda** Distribution of the zeros of one class of polynomials. **52** #5634
- Griibel, G.** Zur Bestimmung der Verzweigungspunkte von Wurzelortskurven. **53** #5597
- Günther, Claus** Nichtnegative Polynome in zwei Veränderlichen. **52** #8098
- Hall, R. R.** Note on a theorem of Pólya and Catherine Rényi. **54** #7437
- Hasquenoph, Jean-Marie** Localisation des zéros de polynômes réciproques. **52** #13757
- Localisation des zéros de polynômes par rapport au cercle unité. **55** #5597
- Heinz, Walter** Ein Verfahren zur Bestimmung der isolierten Nullstellen von Polynomen in z und z^* . **53** #366
- Horowitz, Ellis** See **Collins, George E.**, **49** #10669
- Jury, Eliahu I.** (with Ahn, S. M.) Remarks on the root-clustering of a polynomial in certain region in the complex plane. **55** #5598
- See also **Anderson, B. D. O.**, **49** #7243
- Karetnyi, O. Ja.** (with Kaz'min, O. N.) Identification of the domain of exponential stability in the parameter plane. (Russian) **49** #7244
- Kaz'min, O. N.** See **Karetnyi, O. Ja.**, **49** #7244
- Korsakov, G. F.** On the Schur-Cohn problem. (Russian) **53** #13176
- Lawton, Wayne** Heights of algebraic numbers and Szegő's theorem. **51** #12803
- Lin, V. Ja.** Superpositions of algebraic functions. (Russian) **47** #1784
- Merrien, Jean** Un théorème des zéros pour les idéaux de séries formelles à coefficients réels. **47** #4976
- Ogarkov, T. T.** Distribution of the roots of algebraic polynomials. (Russian) **54** #7439
- Finding the roots of certain polynomials. (Russian) **54** #7439
- Pathiaux, Martine** Détermination effective des polynômes de A. Connes relativement à un nombre de Pisot. **53** #5545
- Pidstrigač, Ja. S.** (with Balins'kii, A. I.; Zorü, L. M.) A certain criterion for the stability of polynomials. (Russian) **52** #10696
- Ștefănescu, Doru** Approximate methods for solving algebraic equations—the method of Sturm. (Romanian) **58** #10843
- Zaheer, Neyamat** On polar relations of abstract homogeneous polynomials. **53** #5544
- On composite abstract homogeneous polynomials. **55** #2857
- Zimmer, Horst Günter** See **Cantor, David G.**; et al., **48** #8456
- Zorü, L. M.** See **Pidstrigač, Ja. S.**; et al., **52** #10696

Secondary classifications:

- Anderson, B. D. O.** (with Bitmead, Robert R.) Stability of matrix polynomials. (**58** #9642)
- Bitmead, Robert R.** See **Anderson, B. D. O.**, (**58** #9642)

- Craven, Thomas C.** (with Csordas, George) Multiplier sequences for fields. (58 #27921)
- Csordas, George** See **Craven, Thomas C.**, (58 #27921)
- Giguere, J. C.** (with Ramachandran, V.; Swamy, M. N. S.) A proof for Talbot's conjecture. (52 #16875)
- Elman, Rudolph E.** New algebraic methods in stability theory. (Russian summary) (47 #7164)
- Assalle, Guy** Sur le théorème des zéros différentiable. (51 #1869)
- Mil'firov, K. L.** On the problem of determining a neighborhood of the imaginary axis that does not intersect with the spectrum of a real polynomial. (Russian) (58 #11338)
- Linkert, James R.** An exact method for finding the roots of a complex polynomial. (56 #299)
- Quine, John** The geometry of $p(S^1)$. (56 #589)
- Ramachandran, V.** See **Giguere, J. C.**; et al., (52 #16875)
- Ribenboim, Paulo** Le théorème des zéros pour les corps ordonnés. (53 #415)
- Schmid, B. L.** A problem of Theodore S. Motzkin on the arithmetic mean. (53 #334)
- Swamy, M. N. S.** See **Giguere, J. C.**; et al., (52 #16875)
- Vest, Robert W.** A differential fundamental theorem of algebra. (54 #13978)
- 12D15 Formally real fields**
- Arason, Jón Kristinn** Primideale im gradierten Witttring a und im mod 2 Cohomologiering. 53 #8027
- Becker, Eberhard** Euklidische Körper und euklidische Hüllen von Körpern. 50 #7103 (with Spitzlay, Karl-Josef) Zum Satz von Artin-Schreier über die Eindeutigkeit des reellen Abschlusses eines angeordneten Körpers. 51 #3128
- Becker, Eberhard** Hereditarily Pythagorean fields, infinite Harrison-primes and sums of 2th powers. 57 #289
- Becker, Ludwig** Über eine Klasse pythagoreischer Körper. 47 #3356
- Becker, Ludwig** Über die Anzahl der Anordnungen eines kommutativen Körpers. 58 #611
- Brown, Ron** The reduced Witt ring of a formally real field. 57 #12471
- Carmichael, Gail L.** On the set of orders on a field. 48 #3929
- Craven, Thomas C.** The topological space of orderings of a rational function field. 50 #2132
- Craven, Thomas C.** The Boolean space of orderings of a field. 52 #353
- Craven, Thomas C.** Existence of SAP extension fields. 58 #5608
- Fein, Burton** (with Schacher, Murray M.) The ordinary quaternions over a Pythagorean field. 54 #5199
- Fein, Burton** A real place on the real number field is trivial. 51 #3129
- Gondard, Danielle** (with Ribenboim, Paulo) Sur le 17^{ème} problème de Hilbert. 48 #8457
- Gondard, Danielle** Quelques généralisations du 17^{ème} problème de Hilbert. 54 #288 (with Ribenboim, Paulo) Le 17^e problème de Hilbert pour les matrices. 55 #5600 (with Ribenboim, Paulo) Fonctions définies positives sur les variétés réelles. 55 #5601
- Guralnick, Robert M.** See **Miller, Michael D.**, 57 #291
- Îrărescu, Vasile I.** An observation concerning fields with archimedean valuation. (Romanian) 57 #290
- Kasahara, Shouro** A characterization of nonstandard real fields. 53 #10768
- Kasahara, Shouro** A remark on nonstandard real fields. 53 #8028
- Kasahara, Shouro** A characterization of nonstandard real fields. 51 #12804
- Knebusch, Manfred** On the uniqueness of real closures and the existence of real places. 47 #4977
- Knebusch, Manfred** Real closures of semilocal rings, and extension of real places. 50 #7104
- Knebusch, Manfred** On the extension of real places. 49 #2681 (with Wright, Michael J.) Bewertungen mit reeller Henselisierung. 54 #7440
- Knebusch, Manfred** On algebraic curves over real closed fields. I. 54 #10218 (E 56 #12011)
- Knebusch, Manfred** Quadratische Formen und die Artin-Schreiersche Theorie der formal reellen Körper. 58 #612
- Knebusch, Manfred** Notes on real closed fields. 46 #9014
- Marić, Vojislav** (with Sangalli, A.) Growth of solutions of algebraic equations with coefficients in a group. 53 #367
- McKenna, Kenneth** New facts about Hilbert's seventeenth problem. 53 #5547
- Miller, Michael D.** (with Guralnick, Robert M.) Subfields of algebraically closed fields. 57 #291
- Pérez, Jesús H.** See **Ribenboim, Paulo**, 54 #7441
- Peters, Meinhard** Summen von Quadraten in Zahlringen. 50 #4551
- Prestel, Alexander** Quadratische Semi-Ordnungen und quadratische Formen. 49 #2682
- Procesi, Claudio** (with Schacher, Murray M.) A non-commutative real Nullstellensatz and Hilbert's 17th problem. 55 #5599
- Ribenboim, Paulo** Hilbert's 17th problem. (Spanish) 54 #7441
- Ribenboim, Paulo** 17^{ème} problème de Hilbert. 52 #3124
- Ribenboim, Paulo** Quelques développements récents du 17^e problème de Hilbert. 53 #2909
- Ribenboim, Paulo** See also **Gondard, Danielle**, 48 #8457; **Gondard, Danielle**, 55 #5600 and **Gondard, Danielle**, 55 #5601
- Robinson, Abraham** On the real closure of a Hardy field. 49 #4980
- Sangalli, A.** See **Marić, Vojislav**, 53 #367
- Schacher, Murray M.** See **Fein, Burton**, 54 #5199 and **Procesi, Claudio**, 55 #5599
- Schwarz, Niels** Über die Beziehungen zwischen der Galoisgruppe und dem Raum der Anordnungen eines formal-reellen Körpers. 57 #5969
- Spitzlay, Karl-Josef** See **Becker, Eberhard**, 51 #3128
- Stengle, Gilbert** A nullstellensatz and a positivstellensatz in semialgebraic geometry. 48 #11073
- Ware, Roger** Extending orderings on formally real fields. 53 #2910
- Ware, Roger** When are Witt rings group rings? II. 58 #27920
- Wright, Michael J.** See **Knebusch, Manfred**, 54 #7440
- Secondary classifications:**
- Arason, Jón Kristinn** (with Pfister, Albrecht) Zur Theorie der quadratischen Formen über formalreellen Körpern. (55 #5529)
- Bröcker, Ludwig** Zur orthogonalen Geometrie über pythagoreischen Körpern. (52 #8036)
- Bröcker, Ludwig** Zur Theorie der quadratischen Formen über formal reellen Körpern. (50 #7027)
- Brown, Ron** Superpythagorean fields. (55 #320)
- Collins, George E.** Quantifier elimination for real closed fields by cylindrical algebraic decomposition. (53 #7771)
- Duret, Jean-Louis** Instabilité des corps formellement réels. (57 #5739)
- Elman, Richard** (with Lam, Tsit Yuen) Quadratic forms and the u -invariant. II. (54 #5114)
- Elman, Richard** (with Lam, Tsit Yuen) Quadratic forms and the u -invariant. I. (48 #2072)
- Elman, Richard** (with Lam, Tsit Yuen; Prestel, Alexander) On some Hasse principles over formally real fields. (48 #8384)
- Elman, Richard** (with Lam, Tsit Yuen) Classification theorems for quadratic forms over fields. (50 #4485)
- Fine, Benjamin** Sum of squares rings. (55 #8023)
- Frölicher, Alfred** Eine einfache Charakterisierung der reellen Zahlen. (51 #7985)
- Geyer, Wulf-Dieter** Reelle algebraische Funktionen mit vorgegebenen Null- und Polstellen. (English summary) (58 #5683)
- Geyer, Wulf-Dieter** (with Martens, Gerriet) Überlagerungen berandeter Kleinscher Flächen. (56 #3021)
- Hsia, John S.** (with Johnson, Robert P.) On the representation in sums of squares for definite functions in one variable over an algebraic number field. (50 #12917)
- Ikeda, Masatoshi** Chain condition of Witt rings and orderings of fields. (Turkish summary) (52 #8168)
- Izopavicius, A. Ė.** (with Mihalev, A. V.) Modules with quadratic and bilinear forms. (Russian) (56 #5427)
- Johnson, Robert P.** See **Hsia, John S.**, (50 #12917)
- Knebusch, Manfred** Real closures of commutative rings. I. (52 #8105)
- Knebusch, Manfred** On algebraic curves over real closed fields. II. (56 #368)
- Knebusch, Manfred** Symmetric bilinear forms over algebraic varieties. (58 #16506)
- Knebusch, Manfred** Real closures of algebraic varieties. (58 #16662)
- Knebusch, Manfred** Signatures on Frobenius extensions. (58 #5628)
- Knebusch, Manfred** Berichtigung zu der Arbeit: "On algebraic curves over real closed fields" (Math. Z. 150 (1976), no. 1, 49–70). (56 #12011)
- Lam, Tsit Yuen** See **Elman, Richard**, (48 #2072); **Elman, Richard**; et al., (48 #8384); **Elman, Richard**, (50 #4485) and **Elman, Richard**, (54 #5114)
- Macintyre, Angus J.** Dense embeddings. I. A theorem of Robinson in a general setting. (53 #10574)
- Marshall, Murray A.** Some local-global principles for formally real fields. (55 #12634)
- Martens, Gerriet** See **Geyer, Wulf-Dieter**, (56 #3021)
- Mihalev, A. V.** See **Izopavicius, A. Ė.**, (56 #5427)
- Mostowski, Tadeusz** Analytic applications of decidability theorems. (Polish) (56 #5518)
- Pfister, Albrecht** Sums of squares in real function fields. (54 #12639)
- Pfister, Albrecht** Hilbert's seventeenth problem and related problems on definite forms. (54 #12638)
- Pfister, Albrecht** See also **Arason, Jón Kristinn**, (55 #5529)
- Prestel, Alexander** (with Ziegler, Martin) Erbilch euklidische Körper. (52 #363)
- Prestel, Alexander** See also **Elman, Richard**; et al., (48 #8384)
- Risler, Jean-Jacques** Le théorème des zéros en géométries algébrique et analytique réelles. (54 #5226)
- Robinson, Abraham** Algorithms in algebra. (53 #5298)
- Soprunov, S. F.** The power of a real-closed field. (Russian. English summary) (51 #5294)
- Ware, Roger** A note on quadratic forms and the u -invariant. (50 #4488)
- Ware, Roger** Hasse principles and the u -invariant over formally real fields. (53 #10714)
- Waterhouse, William C.** Self-adjoint operators and formally real fields. (55 #12637)
- Ziegler, Martin** See **Prestel, Alexander**, (52 #363)

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- Abdelkader, Mostafa A.** Functional equations for solutions of algebraic equations. 46 #9015
- Berți, Șt.** (with Burlacu, Eugen) Quelques considérations concernant les relations binaires complexes. 56 #329
- Boyce, William M.** On polynomials which commute with a given polynomial. 45 #232
- Burlacu, Eugen** See **Berți, Șt.**, 56 #329
- Christie, M. R.** Positive definite rational functions of two variables which are not the sum of three squares. 54 #289
- Ellison, William John** On sums of squares in $Q^{1/2}(X)$ etc. 52 #13693
- Gondard, Danielle** (with Ribenboim, Paulo) Fonctions définies positives sur les variétés réelles. (English summary) 49 #257
- Hilbert, David** See **Novák, Břetislav**, 58 #10844
- Householder, Alston S.** Bigradients and the Euclid-Sturm algorithm. 50 #2133
- Jack, Henry** A surface integral and symmetric functions. 46 #5293
- Kaiser, Hans K.** (with Lidl, Rudolf) Die Polynomlösungen spezieller partieller Differentialgleichungen. (English summary) 53 #368
- Lidl, Rudolf** Über Permutationsfunktionen in mehreren Unbestimmten. 46 #1765
- Lidl, Rudolf** See also **Kaiser, Hans K.**, 53 #368
- MacLeod, R. A.** (with Roberts, F. D. K.) Equalizing the coefficients in a product of polynomials. 53 #10769
- Molluzzo, John C.** A representation theorem for polynomials of two variables. 50 #12990
- Montgomery, Hugh L.** Polynomials in many variables. 56 #11974
- Nakamura, Yoshio** On Pfister's dimensions of some nonformally real fields. 58 #613
- Nathanson, Melvyn B.** Multiplication rules for polynomials. 57 #5970
- Newman, Donald J.** Point separating algebras of polynomials. 49 #2683
- Novák, Břetislav** Hilbert's seventeenth problem. (Czech) 58 #10844
- Raičimov, Ivan** A certain class of linear operators that act on sets of functions of several complex variables. (Bulgarian. Russian and French summaries) 46 #7206
- Ribenboim, Paulo** See **Gondard, Danielle**, 49 #257

- Roberts, F. D. K. *See* MacLeod, R. A., 53 #10769
- Sánchez González, Juan Luis Construction of the field of real numbers from the decimal sequences (also called decimal expansions). (Spanish) 51 #3130
- Sheng, T. K. Dispersive and explosive mappings. 51 #10310
- Sitnikov, V. M. (with Starostin, A. I.) Finite groups with decomposable centralizers of involutions. (Russian) 45 #370
- Starostin, A. I. *See* Sitnikov, V. M., 45 #370
- Więsław, Witold On some characterizations of the complex number field. (Russian summary) 46 #154
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- Wilson, Robert Ross Lattice orderings on the real field. 53 #10770
- Wright, I. W. The product of two complex numbers. 52 #3125

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- Bochnak, Jacek Sur le 17ème problème de Hilbert pour les fonctions de Nash. (English summary) (58 #6317)
- Bose, Nirmal K. Matrix factorization in a real field. (57 #9720)
- de Bruijn, Nicolaas Govert Defining reals without the use of rationals. (54 #4983)
- Cordes, Craig M. (with Ramsey, John R., Jr.) Quadratic forms over fields with $u = q/2 < +\infty$. (57 #12384)
- Dubois, D. (with Efroymsen, Gustave A.) A dimension theorem for real primes. (49 #2722)
- Efroymsen, Gustave A. *See* Dubois, D., (49 #2722)
- Esterle, Jean Solution d'un problème d'Erdős, Gillman et Henriksen et application à l'étude des homomorphismes de $\mathcal{C}(K)$. (56 #3787)
- Masser, David William On small values of polynomials. (57 #16651)
- Priess-Crampe, Sibylla Zum Hahnschen Einbettungssatz für angeordnete Körper. (49 #2689)
- Ramsey, John R., Jr. *See* Cordes, Craig M., (57 #12384)
- Risler, Jean-Jacques Division des fonctions de classe \mathcal{C} par les fonctions analytiques réelles. (English summary) (56 #16671)
- Rozenknop, I. Z. Modules over a ring of polynomials. (Russian) (45 #6809)

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- Alekseev, V. B. ★Теорема Абеля в задачах и решениях. (Russian) [Abel's theorem in problems and solutions] 57 #3105
- Kuroš, A. G. ★Ecuaciones algebraicas de grados arbitrarios. (Spanish) [Algebraic equations of arbitrary degrees] 55 #5602
- Procesi, Claudio ★Teoria de Galois elemental. (Spanish) [Elementary Galois theory] 55 #2858
- (de Sepulveda, Silvia) *See* Kuroš, A. G., 55 #5602

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- Ahmad, Faiz On reducing a quartic. 51 #454
- Alter, Ronald On a property of polynomials. 48 #11068
- Berlekamp, Elwyn R. Factoring polynomials. 50 #2134
- Brizolis, Demetrios Hilbert rings of integral-valued polynomials. 52 #10697
- Chalkley, Roger Cardan's formulas and biquadratic equations. 48 #11069
- The perfect n th power which divides a nonzero polynomial. 57 #5971
- Chao, Howard A generalization of Eisenstein's criterion. 49 #7245
- Cohn, J. H. E. (with Mordell, Louis Joel) On sums of four cubes of polynomials. 45 #3367
- Corzatt, Clifton E. Permutation polynomials over the rational numbers. 55 #316
- Craven, Thomas C. (with Csordas, George) Multiplier sequences for fields. 58 #27921
- Csordas, George *See* Craven, Thomas C., 58 #27921
- Cuculescu, Ion Another approach to the problem of superimposed radicals. I. (Romanian) 57 #292
- Another approach to the problem of superimposed radicals. (Romanian) 57 #293
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- Erastov, K. D. The unsolvability by ruler and compass of algebraic equations of degree greater than two. (Russian) 55 #315
- Erdős, Paul (with Fajtlowicz, Siemion) On composition of polynomials. 56 #330
- Evyatar, A. A. On polynomial equations. 46 #155
- (with Scott, D. Bernard) On polynomials in a polynomial. 47 #4978
- Fajtlowicz, Siemion *See* Erdős, Paul, 56 #330
- Felt, Walter (with Rees, Elmer) A criterion for a polynomial to factor completely over the integers. 58 #614
- Gerstein, Larry J. A new proof of a theorem of Cassels and Pfister. 47 #8493
- Györy, Kálmán Sur l'irréductibilité d'une classe des polynômes. II. 48 #8458
- Hall, R. R. On pseudo-polynomials. 45 #3369
- Hering, Hermann Zur Seltenheit der reduziblen Gleichungen. 46 #1766
- Ilamed, Yehiel A characterization of the standard polynomial of even degree. 58 #615
- Kleiman, Howard Irreducibility criteria. 45 #3370
- Kubota, Kenneth K. Factors of polynomials under composition. 58 #27922
- Image sets of polynomials. 48 #8459
- (with Liardet, Pierre) Réfutation d'une conjecture de W. Narkiewicz. (English summary) 54 #12725
- Kurbatov, V. A. A certain peculiarity of the roots of polynomials of prime degree. (Russian) 52 #10699
- Laugwitz, Detlef Unlösbarkeit geometrischer Konstruktionsaufgaben—Braucht man dazu moderne Algebra? 53 #10771
- Lefton, Phyllis On the Galois groups of cubics and trinomials. 54 #10219
- Liardet, Pierre Stabilité algébrique et topologies hilbertiennes. 58 #27923
- See also* Kubota, Kenneth K., 54 #12725
- Liu, Ruey Wen (with Séguin, Gérard E.) Relative primeness of two polynomials. 56 #331

- Markanda, Raj K. Euclidean rings of algebraic numbers and functions. 52 #3126
- McEliece, Robert J. (with Shearer, James B.) A property of Euclid's algorithm and application to Padé approximation. 58 #10845
- McQuillan, Donald L. Modules over algebraic integers. 53 #5548
- Mignotte, Maurice Critères d'irréductibilité des polynômes. 53 #369
- Mills, W. H. *See* Zierler, Neal, 48 #3930
- Mordell, Louis Joel *See* Cohn, J. H. E., 45 #3367
- Ostrowski, Alexander M. The irreducibility of the resultant and connected irreducibility theorems. 56 #15621
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- Ribenboim, Paulo Polynomials whose values are powers. 48 #11070
- Šarapov, N. I. The irreducibility and reducibility of polynomials of degree eight. (Russian) 49 #258
- Schünzel, Andrzej Reducibility of polynomials. 54 #12726
- A general irreducibility criterion. 55 #2859
- Schulze, Volker Polynome mit nicht durch Restklassen beschreibbaren Primteilmengen. 54 #12727
- Scott, D. Bernard *See* Evyatar, A. A., 47 #4978
- Séguin, Gérard E. *See* Liu, Ruey Wen, 56 #331
- Shearer, James B. *See* McEliece, Robert J., 58 #10845
- Smith, John Howard General trinomials having symmetric Galois group. 55 #10433
- Sundararajan, T. Normal polynomials in simple extension fields. III. 58 #27924
- Szász, Gábor Eine neue Behandlung mehrfacher Wurzeln algebraischer Gleichungen. 47 #8494
- Terjanian, Guy Dimension arithmétique d'un corps. 47 #6660
- Zassenhaus, Hans J. On Hensel factorization. II. 52 #10700
- Zierler, Neal (with Mills, W. H.) Products of linear recurring sequences. 48 #3930

Secondary classifications:

- Bass, Hyman Ranks of projective ZG -modules. (52 #14020)
- Berkson, Astrid J. Polynomial subfields over perfect fields. (50 #4553)
- Brauer, Richard Dagobert On the resolvent problem. (51 #8071 (E 54 #5176))
- Erratum: "On the resolvent problem" (Ann. Mat. Pura Appl. (4) 102 (1973) 45–55). (54 #5176)
- Brown, Ron Valuations, primes and irreducibility in polynomial rings and rational function fields. (51 #8089)
- Evyatar, A. A. (with Villamayor, Orlando E.) Taylor series and divisibility. (50 #984)
- Fried, Michael D. Arithmetical properties of function fields. II. The generalized Schottky problem. (56 #2968)
- The field of definition of function fields and a problem in the reducibility of polynomials in two variables. (50 #329)
- Friedland, Shmuel Matrices with prescribed off-diagonal elements. (52 #431)
- McConnell, Alan Polynomial subfields of $k(x)$. (50 #4552)
- Mignotte, Maurice Valeurs unitaires de polynômes sur un corps quadratique imaginaire. (50 #12964)
- Ostrowski, Alexander M. On Kronecker's elimination theory. (58 #16631)
- Pirgov, Dimit'r An extension of I. Seres's theorem on the irreducibility of integral polynomials. (Bulgarian. Russian and French summaries) (54 #5170)
- Rieger, Georg Johann Bemerkungen zu einem Satz von Carroll über Polynome. (47 #3342)
- Robinson, Abraham On bounds in the theory of polynomial ideals. (49 #2364)
- Stevens, John G. Elimination from homogeneous polynomials over a polynomial ring. (54 #10273)
- Strassen, Volker Vermeidung von Divisionen. (English summary) (58 #25128)
- Villamayor, Orlando E. *See* Evyatar, A. A., (50 #984)

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- Aleksandrov, R. L. The contiguity of Čebyšev fields. (Russian) 52 #10701
- Andrews, George E. A theorem on reciprocal polynomials with applications to permutations and compositions. 53 #370
- Arnaudès, Jean-Marie Sur la résolution explicite des équations de degré 5, quand elles sont résolubles par radicaux. 57 #9673
- Carlitz, Leonard A polynomial related to the cyclotomic polynomial. 47 #4979
- Dieudonné, Jean A. Une propriété des racines de l'unité. 47 #8495
- Dubrovskii, V. M. A certain class of equations of the fifth degree. (Russian) 53 #10700
- Erastov, K. D. The unsolvability of binomial equations by means of an instrument that divides an angle into m equal parts. (Russian) 55 #317
- Fried, Michael D. On a theorem of Ritt and related Diophantine problems. 49 #261
- Gay, David A. Normal extensions defined by a binomial equation. 58 #16616
- (with McDaniel, Andrew; Vélaz, William Yslas) Partially normal radical extensions of the rationals. 57 #5972
- Gorbov, A. N. (with Šmidt, R. A.) The Klein resolvent for an equation of degree five over a field of characteristic that divides 5! (Russian) 52 #3127
- Györy, Kálmán Polynomials with given discriminant. 55 #12710
- Kaklé, Kunio The resultant of several homogeneous polynomials in two indeterminates. 52 #8099
- Kautschitsch, Hermann Über vertauschbare Polynome mit vorgegebenen Gradzahlen. 55 #2860
- Kurbatov, V. A. A certain property of an equation relative to the squares of differences. (Russian) 52 #354
- Liardet, Pierre Résultats de stabilité algébrique. 56 #332
- Lidl, Rudolf (with Niederreiter, Harald) On orthogonal systems and permutation polynomials in several variables. 47 #6661
- Tschebyscheffpolynome in mehreren Variablen. 51 #455
- Lin, V. Ja. *See* Zjužin, Ju. V., 50 #7106
- Mann, Henry B. The solution of equations by radicals. 49 #7246
- McDaniel, Andrew *See* Gay, David A., et al., 57 #5972
- Muthsam, Herbert Eine Bemerkung über die Wurzelpolynome Galois'scher Gleichungen.

- (English summary) **57** #16267
- Neukirch, Jürgen** Konstruktion von Zahlkörpern mit gegebener nilpotenter Galoisgruppe. **52** #13759
- Niederreiter, Harald** See **Lidl, Rudolf**, **47** #6661
- Nöbauer, Wilfried** Über Gruppen von Dickson-Polynomfunktionen und einige damit zusammenhängende zahlentheoretische Fragen. **49** #7247
- Novogrudskaja, A. N.** On the study of the roots of solvable equations of prime degree with real coefficients. (Russian) **54** #12728
- Oleinikov, V. A.** Rational algebraic superpositions. (Russian) **47** #191
- Parker, Tom** Some applications of Galois theory to normal polynomials. **51** #456
- Ribenboim, Paulo** Polynomials whose values are powers. **51** #457
- Pythagorean and Fermatian fields. **54** #290 (EA **54**)
- Rollero, Aldo** Sui discriminanti delle equazioni dei gradi 5, 6. (English and French summaries) **56** #2971
- Šmidt, R. A.** See **Gorbov, A. N.**, **52** #3127
- Stjažkina, A. G.** On the problem of constructing metacyclic fields of prime degree. (Russian) **52** #10702
- Vélez, William Yslas** See **Gay, David A.**; et al., **57** #5972
- Young, Lael M.** Cyclosymmetric polynomials. **50** #7105
- Juzin, Ju. V.** (with Lin, V. Ja.) Nonramified algebraic extensions of commutative Banach algebras. (Russian) **50** #7106

Secondary classifications:

- Bender, Edward A.** (with Brawley, J. V.) Similarity to symmetric matrices over fields which are not formally real. **(52** #10766)
- Bertrand, Daniel** Le théorème d'Ax et Kochen. **(52** #13754)
- Brawley, J. V.** See **Bender, Edward A.**, **(52** #10766)
- Eckmann, Jean-Pierre** On the computation of the Galois group over the quotient field of $C[X]$. **(56** #2954)
- Fried, Michael D.** On a theorem of MacCluer. **(49** #2680)
- Gilmer, Robert** On factorization of polynomials modulo n . **(49** #10656)
- Kubota, Kenneth K.** Image sets of polynomials. **(48** #8459)
- Lausch, Hans** (with Müller, Winfried B.; Nöbauer, Wilfried) Über die Struktur einer durch Dicksonpolynome dargestellten Permutationsgruppe des Restklassenringes modulo n . **(48** #2231)
- Lewis, Donald J.** Curves with abnormally many integral points. **(49** #10698)
- Invariant sets of morphisms on projective and affine number spaces. **(46** #1746)
- Müller, Winfried B.** See **Lausch, Hans**; et al., **(48** #2231)
- Nöbauer, Wilfried** See **Lausch, Hans**; et al., **(48** #2231)
- Pierce, Stephen** Rational equivalence of unimodular circulants. **(49** #10716)
- Prestel, Alexander** A local-global principle for quadratic forms. **(51** #354)
- Stewart, Ian N.** ★Galois theory. **(48** #8460)
- Swanathan, T. M.** Ordered fields and sign-changing polynomials. **(57** #298)

12E99 None of the above, but in this section

- Sur'jan, V. Ju.** A generalization of Hermite's method for the Tschirnhaus transformation. (Russian) **56** #15622
- Charlesworth, Arthur** Polynomials and infinite subfields. **57** #3106
- Frey, Gerhard** Pseudo algebraically closed fields with non-Archimedean real valuations. **48** #3931
- Yanov, N. A.** Some invariants of reduced algebraic polynomials. (Russian) **58** #27925
- Kuhn, Harold W.** A new proof of the fundamental theorem of algebra. **55** #2861
- Leferov, L. P.** A method of solving the cubic equation. (Bulgarian. Russian and French summaries) **58** #616
- Lenstra, Hendrik W., Jr.** Euclid's algorithm in cyclotomic fields. **52** #8100
- Mauve, Reinhard** Eine Eigenschaft gewisser algebraischer Potenzreihen. **48** #3932
- Müller, Winfried B.** Über die Abhängigkeit von Summen-, Product- und Kettenregel im rationalen Funktionenkörper. **57** #3107
- Nakamura, Yoshio** Degrees of Galois extensions and norms of prime ideals of algebraic number fields. **51** #5564 (E **55** #7998)
- Ostrowski, Alexander M.** On multiplication and factorization of polynomials. I. Lexicographic orderings and extreme aggregates of terms. **53** #2911
- On multiplication and factorization of polynomials. II. Irreducibility discussion. **54** #10220
- Ribenboim, Paulo** Pfister's dimension and the level of fields. **52** #355
- Risman, Lawrence J.** On the order and degree of solutions to pure equations. **53** #371
- Szymiczek, Kazimierz** Grothendieck groups of quadratic forms and G -equivalence of fields. **48** #3933
- Tignol, Jean-Pierre** ★Décomposition et descente de produits tensoriels d'algèbres de quaternions. **58** #16617

Secondary classifications:

- Adleman, Leonard** (with Manders, Kenneth) Computational complexity of decision procedures for polynomials. **(57** #264)
- Baston, V. J.** (with Bostock, F. A.) Copying configurations in algebraic extensions of prime fields. **(55** #2618)
- Bayart, Marc** Séries formelles irréductibles en une variable. **(49** #5002)
- Bernšteín, D. N.** The number of roots of a system of equations. (Russian) **(55** #8034)
- Bostock, F. A.** See **Baston, V. J.**, **(55** #2618)
- Chinburg, Ted** (with Henriksen, Melvin) Sums of k -th powers in the ring of polynomials with integer coefficients. **(53** #7942)
- Cordes, Craig M.** Kaplansky's radical and quadratic forms over non-real fields. **(53** #10713)
- Ellison, William John** Waring's problem for fields. **(54** #2610)
- Henriksen, Melvin** See **Chinburg, Ted**, **(53** #7942)
- Loxton, J. H.** (with Van der Poorten, Alfred J.) On algebraic functions satisfying a class of functional equations. **(53** #13131)
- Manders, Kenneth** See **Adleman, Leonard**, **(57** #264)

- May, Warren** Multiplicative groups of fields. **(45** #3560)
- Staples, John** Axioms for constructive fields. **(48** #74)
- Van der Poorten, Alfred J.** See **Loxton, J. H.**, **(53** #13131)

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- Winter, David J.** ★The structure of fields. **52** #10703

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- Bégueri, Lucile** Schémas en groupes finis radiciels, opérant sur une extension finie radicielle. **45** #235
- Diviš, Bohuslav** On the degrees of the sum and product of two algebraic elements. **57** #5973
- Evans, Ronald J.** (with Isaacs, I. Martin) Fields generated by linear combinations of roots of unity. **55** #10434
- Flamant, Maurice** See **Henoud, Leila**, **51** #12805
- Fray, R. D.** (with Gilmer, Robert) On solvability by radicals of finite fields. **47** #8497
- Gilmer, Robert** On solvability by radicals of field extensions. **47** #8496
- See also **Fray, R. D.**, **47** #8497
- Henoud, Leila** (with Flamant, Maurice) Extensions cycliques non ramifiées. **51** #12805
- Herrmann, Manfred** (with Stammer, Ludwig; Sterz, Ulrich) Zur Charakterisierung primärer Körpererweiterungen durch den Stellenbegriff. **48** #275
- Huang, Chih P'ing** See **Shiue, Jau Shyong**, **58** #617
- Isaacs, I. Martin** See **Evans, Ronald J.**, **55** #10434
- Lenstra, Hendrik W., Jr.** On the algebraic closure of two. **57** #16268
- Liardet, Pierre** Sur les transformations polynomiales et rationnelles. **52** #13760
- Maurer, Donald** The additive analogue of Hilbert's Theorem 90. **48** #276
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- Moore, Nadine** Algebraic vector bundles over the 2-sphere. **45** #3403
- Rayner, Francis J.** Algebraically closed fields analogous to fields of Puiseux series. **50** #2135
- Russell, Peter** Good and bad field generators. **56** #2977
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- Stammer, Ludwig** See **Herrmann, Manfred**; et al., **48** #275
- Sterz, Ulrich** See **Herrmann, Manfred**; et al., **48** #275
- Williams, Kenneth S.** Note on extensions of the rationals by square roots. **47** #6662
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- Arnautov, V. I.** (with Vizitiu, V. N.) Extending a locally bounded field topology to an algebraic extension of the field. (Russian) **(49** #10671)
- Bass, Hyman** (with Tate, J.) The Milnor ring of a global field. **(56** #449)
- van Buggenhout, Hilde** Extensions of fields. **(57** #16415)
- De Munter-Kuyl, Lucie** Some invariants for rank three torsion-free modules over a Dedekind domain. (Italian summary) **(58** #22040)
- Jarden, Moshe** On ideal theory in high Prüfer domains. **(52** #5652)
- Seidenberg, Abraham** The prime ideals of a polynomial ideal under extension of the base field. **(50** #13012)
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- Vizitiu, V. N.** See **Arnautov, V. I.**, **(49** #10671)

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- Aleksandrov, R. L.** (with Jangirov, D. G.) Strongly primitive elements of a Čebyšev field of prime degree. (Russian) **57** #5974
- Bačurskaja, A. F.** The group of certain equations. (Russian) **56** #2972
- Equations with a regular group. (Russian) **56** #2973
- Bass, Hyman** (with Soundararajan, T.) A property of profinite groups and the converse of classical Galois theory. **47** #6663
- Bastida, Julio R.** On general Galois theory. **48** #11071
- Berger, Thomas R.** (with Reiner, Irving) A proof of the normal basis theorem. **52** #356
- Berkson, Astrid J.** Polynomial subfields over perfect fields. **50** #4553
- Bertrandias, Françoise** (with Payan, Jean-Jacques) p -extensions abéliennes. **50** #12991
- Chang, Chan Nan** An elementary proof of a conjecture of Harrison. **53** #2912
- Châtelet, François** Construction d'algèbres normales simples. **52** #13761
- Cougnard, Jean** Sur les extensions galoisiennes non abéliennes de degré pq (p et q premiers) des rationnels. **45** #3371
- Damey, Pierre** Extensions quaternioniennes d'un corps de caractéristique différente de 2. **53** #5549
- Deveney, James Kevin** Fields of constants of infinite higher derivations. **49** #259
- Endler, Otto** (with Engler, Antonio José) Fields with Henselian valuation rings. **55** #318
- Endô, Shizuo** (with Miyata, Takehiko) On a classification of the function fields of algebraic tori. **51** #458
- Engler, Antonio José** See **Endler, Otto**, **55** #318
- Fernández Bermejo, Emiliano** On the theory of Galois. (Spanish) **49** #260
- Fried, Michael D.** (with Jarden, Moshe) Stable extensions and fields with the global density property. **53** #10773
- Gillard, Roland** Exemples de plongements d'extensions galoisiennes. **52** #3128
- Plongement d'une extension d'ordre p ou p^2 dans une surextension non abélienne d'ordre p^3 . **51** #459
- Gilmer, Robert** Lagrange resolvents. **47** #4980
- Girardi, Mario** (with Israel, Giorgio) Una caratterizzazione degli ampliamenti galoisiani. (English summary) **54** #5200
- Girstmair, Kurt** (with Oberst, Ulrich) Ein Verfahren zur konstruktiven Bestimmung von

- Galoisgruppen. **58** #22029
- Griffin, Malcolm P. The Pythagorean closure of fields. **54** #12729
- Gröbner, Wolfgang Die Galois-Theorie. (English summary) **58** #10846
- Henoud, Leila ★Autour de la non ramification. **51** #5565
- Hering, Hermann Über Koeffizientenbeschränkungen affektkloser Gleichungen. **46** #1767
- Ishanov, V. V. The imbedding problem with prescribed localizations. (Russian) **52** #8101
- Israel, Giorgio See Girardi, Mario, **54** #5200
- Jacobson, David On perfect subfields over which a field is separably generated. **45** #3373
- Jangirov, D. G. See Aleksandrov, R. L., **57** #5974
- Jarden, Moshe Roots of unity over large algebraic fields. **51** #460
See also Fried, Michael D., **53** #10773
- Kanno, Tsuneo Automorphisms of the Galois group of the algebraic closure of the rational number field. **49** #4981
- Kleiman, Howard Totally real subfields of p -adic fields having the symmetric group as Galois group. **46** #9016
- Klingen, Norbert Elementar äquivalente Körper und ihre absolute Galoisgruppe. **50** #9844
- Kneser, Martin Lineare Abhängigkeit von Wurzeln. **51** #10311
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- Alekseev, V. B. ★Теорема Абеля в задачах и решениях. (Russian) [Abel's theorem in problems and solutions] (**57** #3105)
- Arnaudies, Jean-Marie Sur la résolution explicite des équations de degré 5, quand elles sont résolubles par radicaux. (**57** #9673)
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- Kime, Linda Almgren Allowable diagrams for purely inseparable field extensions. **49** #262 (EA 49)
- Kinoshita, Hisae Forms and extensions in a purely inseparable extension. **55** #2863
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- Vinograd, Bernard** See **Mordeson, John N.**; et al., **46** #7209 and **Haddix, George F.**; et al., **48** #8461
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- Riffelmacher, Dave** Multiplication alteration and related rigidity properties of algebras. (**58** #5746)
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- Gršin, A. V.** The multiplicative group of a field. (Russian) **52** #13766
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- Ax, James** On Schanuel's conjectures and Skolem's method. (**47** #6618)
- Boffa, Maurice** (with van Praag, Paul) Sur les sous-champs maximaux des corps génériques dénombrables. (**48** #101)
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- Knus, Max-Albert** (with Ojanguren, Manuel) A Mayer-Vietoris sequence for the Brauer group. (**51** #5572)
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Waterhouse, William C. Notes toward higher differential algebra. 52 #13771

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Bank, Steven B. A general representation theorem for analytic solutions of first-order algebraic differential equations in sectors. (50 #7630)
Berg, Lothar Multiplication of distributions. (58 #18531)
Bleyer, András (with Preuss, Wolfgang) A note to the continuous derivation of fields. (57 #17138)
Blum, Lenore Differentially closed fields: a model-theoretic tour. (58 #10415)
Brownawell, W. Dale (with Kubota, Kenneth K.) The algebraic independence of Weierstrass functions and some related numbers. (56 #2932)
Cassidy, Phyllis Joan Differential algebraic groups. (50 #13058)
Chung, Jae Myung On the right quotient monoids in $U[y, D]$. (58 #759)
Ciumasşu, Dorin A condition for a linear partial differential equation to have analytic solutions. (Romanian summary) (50 #735)
Cowles, J. The theory of differentially closed fields in logics with cardinal quantifiers. (57 #5738)
Furuya, Mamoru An application of higher differential algebra of local rings. (54 #10231)
Harrington, Leo A. Recursively presentable prime models. (50 #4292)
Hauger, Günther Einfache Derivationspolynomringe. (57 #3195)
Johnson, Joseph Some homological properties of Spencer's cohomology theory. (48 #9779)
Kock, Anders Taylor series calculus for ring objects of line type. (58 #18529)
Kubota, Kenneth K. See **Brownawell, W. Dale**, (56 #2932)
Kundert, Esayas George Linear operators on certain completions of the s - d -ring over the integers. I. (Italian summary) (54 #5210a)
 Linear operators on certain completion of the s - d -rings over the integers. II. (Italian summary) (54 #5210b)
Lacava, Francesco Teoria dei campi differenziali ordinati. (English summary) (58 #210)
Levitt, Antonius Jordan decomposition for a class of singular differential operators. (58 #17962)
Lopatin, O. K. See **Mitropol'skii, Ju. O.**, (49 #733)
Mahler, Kurt A p -adic analogue to a theorem by J. Popken. (49 #2578)
Manin, Ju. I. Algebraic aspects of nonlinear differential equations. (Russian) (58 #18567)
Mitropol'skii, Ju. O. (with Lopatin, O. K.) The transformation of systems of nonlinear differential equations to normal form. (Russian) (49 #733)
Moses, Joel Toward a general theory of special functions. (53 #3384)
Podporin, V. P. Solutions of the operator equation $P_1(D)A = AP_2(D)$ in certain classes of linear operators. (Russian) (57 #10468)
Preuss, Wolfgang See **Bleyer, András**, (57 #17138)
Ribenboim, Paulo The differential spectrum of a ring. (48 #8503)
Sacks, Gerald E. The differential closure of a differential field. (45 #8514)
Seidenberg, Abraham Differential ideals in complete local rings. (48 #11108)
Shelah, Saharon Differentially closed fields. (49 #8856)
Singer, Michael F. A class of differential fields with minimal differential closures. (57 #5737)
Tsuboi, Syoji On the monodromy group of a certain system of linear partial differential equations. (58 #22960a (E 58 #22960b))
 Supplement to "On the monodromy group of a certain system of linear partial differential equations" (Sci. Rep. Kagoshima Univ. No. 23 (1974), 15-39). (58 #22960b)
Wood, Carol The model theory of differential fields of characteristic $p \neq 0$. (48 #8227)
 Prime model extensions for differential fields of characteristic $p \neq 0$. (50 #9577)
 The model theory of differential fields revisited. (56 #15414)
Anniversary:
 Association for Computing Machinery See **Moses, Joel**, (53 #3384)

12H10 Difference algebra

- Cohn, Richard M.** Types of singularity of components of difference polynomials. 48 #8463
Evanovich, Peter Algebraic extensions of difference fields. 47 #3359

Franke, Charles H. Reducible linear difference operators. **49** #264

Pankrat'ev, E. V. The inverse Galois problem for the extensions of difference fields. (Russian) **47** #3360

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Franke, Charles H. A characterization of linear difference equations which are solvable by elementary operations. **(49** #2688)

Gontineac, M. *See* Climescu, AL, **(58** #23211)

12Jxx Topological fields

Więslaw, Witold On topological fields. **49** #265 (E **53** #5554)

Secondary classifications:

Samuel, Pierre *See* Zariski, O., **(52** #10706)

Zariski, O. (*with* Samuel, Pierre) ★Commutative algebra. Vol. II. **(52** #10706)

12J05 Normed fields

Staum, Richard The completion of an algebraically closed valued field. (Italian summary) **51** #5567

Więslaw, Witold An example of a locally unbounded complete extension of the p -adic number field. **49** #8972 (E **53** #5554)

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12J10 Valued fields

Armbrust, Manfred On the theorem of Ax and Kochen. **45** #3375

Basarab, Șerban A. Certain metamathematical aspects of the theory of Henselian field. (Romanian. English summary) **52** #8104

Bastos, Gervasio G. A characterization of complete subfields of a complete valued field. **57** #5977

Berrondo, François Corps topologiquement henséliens. (English summary) **51** #12809

Botteri, V. Sur une espèce de familles de l'anneau de valuation. (Serbo-Croatian summary) **55** #5604

Brücker, Ludwig Characterization of fans and hereditarily Pythagorean fields. **54** #10224

Brown, Ron Valuations, primes and irreducibility in polynomial rings and rational function fields. **51** #8089

Cohen, Jo-Ann *See* Nichols, Elizabeth, **56** #15625

Dubrovsky, Diana L. Some subfields of \mathbb{Q}_p and their non-standard analogues. **50** #9845

Endler, Otto On henselizations of valued fields. **54** #5203

Engler, Antonio José La clôture séparable d'un corps dans son complété. (English summary) **54** #10225

Fields with two incomparable Henselian valuation rings. **57** #3108

The relative separable closure of a valued field in its completion. **57** #16272

Güntzer, Ulrich (*with* Remmert, Reinhold) Bewertungstheorie und Spektralnorm. **46** #5294

Harrison, D. K. (*with* Warner, Hoyt D.) Infinite primes of fields and completions. **52** #361

Hill, Linda Henselian valued fields with prescribed value group and residue field. **49** #8973

Jain, D. R. *See* Jain, Pawan Kumar, **55** #319

Jain, Pawan Kumar (*with* Jain, D. R.) Simultaneous automorphisms in the space of entire functions over non-Archimedean fields. (Serbo-Croatian summary) **55** #319

Krasner, Marc Domaines complets d'existence des fonctions analytiques uniformes dans les corps valués complets. **45** #238

Nichols, Elizabeth (*with* Cohen, Jo-Ann) Locally bounded topologies on global fields. **56** #15625

Remmert, Reinhold *See* Güntzer, Ulrich, **46** #5294

Robba, Philippe Prolongement des solutions d'une équation différentielle p -adique. **50** #2136

Roquette, Peter Bemerkungen zur Theorie der formal p -adischen Körper. **45** #8643

Schikhof, W. H. The set of derivatives in a non-archimedean field. **51** #10312

Štípel'man, Ja. I. Valuations of the s field of quotients of a ring of quantum mechanics. (Russian) **47** #1786

Strano, Rosario Alcune proprietà dei corpi henseliani. (English summary) **53** #5552

Viswanathan, T. M. A characterisation of Henselian valuations via the norm. **50** #7109

Vizitiu, V. N. Extension of m -topologies of a field. (Russian) **53** #377

Warner, Hoyt D. Determination of quadratic extensions of linearly compact fields by norm groups. **45** #3377

See also Harrison, D. K., **52** #361

Warner, Seth A topological characterization of complete, discretely valued fields. **48** #6068

Wefelscheid, Heinrich Zur Konstruktion bewerteter Fastkörper. **46** #5295

Więslaw, Witold Extensions of topological fields. **48** #3936

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Bachman, George (*with* Beckenstein, Edward; Narici, Lawrence) Function algebras over valued fields and measures. I. (Italian summary) **(50** #10787)

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Basarab, Șerban A. Quelques propriétés modèle-théoriques des corps valués henseliens. (English summary) **(58** #21583)

Beckenstein, Edward (*with* Bachman, George; Narici, Lawrence) Function algebras over valued fields and measures. III. (Italian summary) **(50** #10789)

(*with* Bachman, George; Narici, Lawrence) Function algebras over valued fields and measures. IV. (Italian summary) **(50** #10790)

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Berrondo, François Sur le corps des fractions d'un anneau de séries formelles généralisées. (English summary) **(55** #12719)

Brown, Ron Valued vector spaces of countable dimension. **(47** #764)

Endler, Otto Finite separable field extensions with prescribed extensions of valuations. II. **(53** #380)

Fried, Michael D. (*with* Jarden, Moshe) Stable extensions and fields with the global density property. **(53** #10773)

Jarden, Moshe *See* Fried, Michael D., **(53** #10773)

Kiyek, K. Pseudobetragsfunktionen auf Quotienten-körpern von Dedekindringen. **(53** #381)

Langmann, Klaus Globale Moduln. **(45** #2207)

Luxemburg, Wilhelmus Anthonius Josephus On a class of valuation fields introduced by A. Robinson. **(57** #98)

Mothon, Bernard Sur les séries en analyse non archimédienne. **(58** #27915)

Narici, Lawrence (*with* Beckenstein, Edward; Bachman, George) ★Functional analysis and valuation theory. **(50** #14142)

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Petersson, Holger P. Lokal kompakte Jordan-Divisionsringe. **(51** #634)

Composition algebras over a field with a discrete valuation. **(51** #635)

Ribenboim, Paulo Le théorème des zéros pour les corps ordonnés. **(53** #415)

van Rooij, Arnoud (*with* Schikhof, W. H.) Non-Archimedean analysis. **(47** #2392)

Schikhof, W. H. *See* van Rooij, Arnoud, **(47** #2392)

Springer, Tonny Albert A remark on the Milnor ring. **(46** #1887)

Weispfenning, Volker On the elementary theory of Hensel fields. **(55** #5437)

Yadav, Ram Avtar Witt ring of Henselian valued fields of rank $r > 1$. (Italian summary) **(55** #7916)

12J15 Ordered fields

Airapetov, V. E. Examples of number fields that can be order in many ways. (Russian) **50** #2137

Boja, N. About the C_c algebra associated to a finite extension of the second degree of a K field. **53** #10778

Brücker, Ludwig Über die Anzahl der Anordnungen eines kommutativen Körpers. **58** #5613

Brown, Ron Superpythagorean fields. **55** #320

von Chossy, Rainer (*with* Priess-Crampe, Sibylla) Ordnungsverträgliche Bewertungen eines angeordneten Körpers. **51** #12810

Csontos, Peter (*with* Morgan, Christopher L.; Rebman, Kenneth) Pseudo-ordered fields. **57** #5978

Dieudonné, Jean A. Sur les automorphismes des corps algébriquement clos. **55** #321

See also Valabrega, Elda Gibellato; et al., **46** #9017

Faltin, F. (*with* Metropolis, N.; Ross, B.; Rota, Gian-Carlo) The real numbers as a wreath product. **52** #362

(*with* Metropolis, N.; Ross, B.; Rota, Gian-Carlo) The real numbers as a wreath product. **58** #27931

Gondard, Danielle (*with* Ribenboim, Paulo) Sur le 17e problème de Hilbert. **57** #9676

Heatherly, Henry E. Ordered fields of arbitrary cardinality. **53** #378

(Hilbert, David) *See* Valabrega, Elda Gibellato; et al., **46** #9017

Holland, Samuel S., Jr. Orderings and square roots in * -fields. **56** #5515

Langwitz, Detlef Bemerkungen über Stetigkeit und angeordnete Körper. **49** #4985

van Maaren, H. Pseudo-ordered fields. **50** #9846

Massaza, Carla Sul completamento dei campi ordinati. (English summary) **45** #5118

On the completion of ordered fields. (Greek summary) **46** #3494

Sulle valutazioni che inducono la topologia di un ordinamento non archimedeo. **53** #2914

Metropolis, N. *See* Faltin, F.; et al., **52** #362 and Faltin, F.; et al., **58** #27931

Meyer, Werner Konvexe Untergruppen in algebraischen Zahlkörpern. **58** #16620

Morgan, Christopher L. *See* Csontos, Peter; et al., **57** #5978

Nagata, Masayoshi Some remarks on ordered fields. **53** #379

Some remarks on ordered fields. **52** #13772

Nagumo, Mitio Quantities and real numbers. **57** #9677

Prestel, Alexander (*with* Ziegler, Martin) Erblich euklidische Körper. **52** #363

Priess-Crampe, Sibylla Zum Hahnschen Einbettungssatz für angeordnete Körper. **49** #2689

See also von Chossy, Rainer, **51** #12810

Profke, Lothar Von \mathbf{R} verschiedene Modelle der Freudenthalschen Axiome vom Rechenschieber und vom Winkelmesser. **56** #11975

Rayner, Francis J. Ordered fields. **55** #10436

Rebman, Kenneth *See* Csontos, Peter; et al., **57** #5978

Ribenboim, Paulo *See* Gondard, Danielle, **57** #9676

Robinson, Abraham Function theory on some nonarchimedean fields. **48** #8464

Ross, B. *See* Faltin, F.; et al., **52** #362 and Faltin, F.; et al., **58** #27931

Rota, Gian-Carlo *See* Faltin, F.; et al., **52** #362 and Faltin, F.; et al., **58** #27931

Valabrega, Elda Gibellato (*with* Valabrega, Paolo) Dai *Grundlagen der Geometrie* di D. Hilbert all' *Algèbre linéaire et géométrie élémentaire* di J. Dieudonné: I reali di J.

Dieudonné. **46** #9017

Valabrega, Paolo *See* Valabrega, Elda Gibellato, **46** #9017

Viswanathan, T. M. Ordered fields and sign-changing polynomials. **57** #298

Ziegler, Martin *See* Prestel, Alexander, **52** #363

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Antonovskii, M. Ja. (with Boltjanskii, V. G.; Sarymsakov, T. A.) ★Topological semifields and their applications to general topology. (**58** #12280)
Boltjanskii, V. G. *See* Antonovskii, M. Ja.; et al., (**58** #12280)
Bröcker, Ludwig Über die Anzahl der Anordnungen eines kommutativen Körpers. (**58** #611)

Craven, Thomas C. The topological space of orderings of a rational function field. (**50** #2132)

Gondard, Danielle (with Ribenboim, Paulo) Le 17ème problème de Hilbert pour les matrices. (**49** #2802)

Kula, Mieczysław Ordered fields and quadratic forms over Pythagorean fields. (Polish summary) (**58** #16507)

Lacava, Francesco Teoria dei campi differenziali ordinati. (English summary) (**58** #210)

Meisters, Gary H. (with Monk, J. Donald) Construction of the reals via ultrapowers. (**50** #292)

Monk, J. Donald *See* Masters, Gary H., (**50** #292)

Ribenboim, Paulo Pfister's dimension and the level of fields. (**51** #430)
See also Gondard, Danielle, (**49** #2802)

Robinson, Abraham Ordered differential fields. (**48** #2124)

Sarymsakov, T. A. *See* Antonovskii, M. Ja.; et al., (**58** #12280)

Ware, Roger Extending orderings on formally real fields. (**53** #2910)

Wilson, Robert Ross Lattice orderings on the real field. (**53** #10770)
Lattice orders on fields and certain rings. (**57** #5858)

American Mathematical Society Translations, Ser. 2 *See* Antonovskii, M. Ja.; et al., (**58** #12280)

12J20 General valuation theory

Arnautov, V. I. (with Vizitiu, V. N.) Extending a locally bounded field topology to an algebraic extension of the field. (Russian) **49** #10671

Bastos, Gervasio G. A generalized Krasner lemma and applications. (Portuguese) **57** #5979

Zur Lösbarkeit von Existenzproblemen in der Bewertungstheorie. **49** #10673

Berrondo, François Un corps non algébriquement clos complet pour deux valuations indépendantes. (English summary) **53** #8031

Brown, Ron An approximation theorem for extended prime spots. **45** #1884
(with Warner, Hoyt D.) Quadratic extensions of linearly compact fields. **45** #3376

Extended prime spots and quadratic forms. **52** #13773

Dress, Andreas W. M. On orderings and valuations of fields. **57** #12475

Endler, Otto ★Valuation theory. **50** #9847

Finite separable field extensions with prescribed extensions of valuations. II. **53** #380

On infinite ramification theory. **58** #27932

Heine, J. Existence of locally unbounded topological fields, and field topologies which are not the intersection of bounded ring topologies. **47** #8499
Ringtopologien auf nichtalgebraischen Körpern. **47** #8500
(with Warner, Seth) Ring topologies on the quotient field of a Dedekind domain. **47** #8501

Kiyek, K. Pseudobetragsfunktionen auf Quotienten-körpern von Dedekindringen. **53** #381

Mathiak, Karl Bewertungen nicht kommutativer Körper. **58** #5614

Močkoř, Jiří An extension of approximation theorems. **52** #364

Rayner, Francis J. Gravett's proof of a theorem of Krull. **48** #3937 (E **52** #365)

Corrigendum: "Gravett's proof of a theorem of Krull" (Quart. J. Math. Oxford Ser. (2) **24** (1973), 409–410). **52** #365

Rhodes, Christopher A relation for ideal has an analog for pseudovaluations. **57** #9678

Rigo, Thomas (with Warner, Seth) Topologies extending valuations. **57** #5980

Sangare, Daouda Sur la composition des filtrations et des pseudo-valuations. (English summary) **55** #2865

Singh, Surjit Pseudo-valuation and pseudo norm. **51** #12811

Note on a paper of P. M. Cohn. **51** #12812

Stratigopoulos, Demetrios Valuation faible. **58** #27933

Vámos, Peter Multiply maximally complete fields. **52** #13774

Varouchakis, N. C. Groupes ultramétriques valués. **57** #16273

Vizitiu, V. N. *See* Arnautov, V. I., **49** #10671

Warner, Hoyt D. *See* Brown, Ron, **45** #3376

Warner, Seth *See* Heine, J., **47** #8501 and Rigo, Thomas, **57** #5980

Secondary classifications:

Alling, Norman L. Primary ideals in rings of analytic functions. (**52** #3963)

Cantini, Andrea On non-Archimedean structures of D. Klaua. (**58** #31041)

Fuchs, László Vector spaces with valuations. (**51** #8212)

Mittas, Jean Contribution à la théorie des structures ordonnées et des structures valuées. (Greek summary) (**52** #5749)

Viswanathan, T. M. A characterisation of Henselian valuations via the norm. (**50** #7109)

12J99 None of the above, but in this section

Arnautov, V. I. (with Vizitiu, V. N.) Continuation of a locally bounded topology of a field to its algebraic extension. (Russian) **54** #12733

Bäni, Werner (with Gross, Herbert) On SAP fields. **58** #22031

Berrondo, François Corps topologiques linéaires non localement bornés et complets.

(English summary) **55** #5605

Čilin, V. I. Regular subsemifields of topological semifields. (Russian) **54** #10226

Homomorphisms of semifields. (Russian) **57** #12476

See also Sarymsakov, T. A.; et al., **56** #5516

Cohen, Jo-Ann Locally bounded topologies on $F(X)$. **57** #12477

Gross, Herbert *See* Bäni, Werner, **58** #22031

Heine, J. Ring topologies of type N on fields. **48** #3938

Isidro, José M. Topologies in fields. (Spanish) **58** #624

Kiltinen, John O. On the number of field topologies on an infinite field. **47** #6667

Mittas, Jean Contributions à la théorie des hypergroupes, hyperanneaux et hypercorps hypervalués. **45** #239

Odoni, R. W. K. A characterization of determinants over topological fields. **51** #463

Olimov, H. Finite-dimensional topological modules over semifields. (Russian) **57** #12478

Podewski, Klaus-Peter The number of field topologies on countable fields. **47** #195

Transcendental extensions of field topologies on countable fields. **47** #196

Rubštejn, B. A. *See* Sarymsakov, T. A.; et al., **56** #5516

Sarymsakov, T. A. (with Rubštejn, B. A.; Čilin, V. I.) Complete tensor products of topological Boolean algebras and semifields. (Russian) **56** #5516

Sathaye, Avinash Convergence sets of divergent power series. **53** #5553

Schramm, Ruben Quasilinearity properties of differentiable functions in a field with a non-Archimedean valuation. **50** #12995

Shanks, M. E. (with Warner, Seth) Topologies on the rational field. **51** #5568

(with Warner, Seth) Locally bounded topologies on the rational field. **54** #5204

Shell, Niel Maximal and minimal ring topologies. **57** #299

Vizitiu, V. N. *See* Arnautov, V. I., **54** #12733

Warner, Seth *See* Shanks, M. E., **51** #5568 and Shanks, M. E., **54** #5204

Weber, Hans Ringtopologien auf \mathbb{Z} und \mathbb{Q} . **56** #5517

Więśław, Witold A characterization of locally compact fields of zero characteristic. **46** #7211 (E **48** #3939)

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A characterization of locally compact fields. II. **54** #5205

Independent topologies on fields. **57** #5981

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Blum, Werner Bemerkungen über elementare Funktionen in nichtarchimedischen

Banachalgebren. (English summary) (**50** #8078)

Gusev, A. I. Quasi-inverse elements in topological semifields. (Russian) (**58** #30261)

Hadžiev, Dž. *See* Sarymsakov, T. A., (**47** #5618)

Hunt, Richard A. (with Taibleson, Mitchell H.) Almost everywhere convergence of Fourier series on the ring of integers of a local field. (**47** #718)

Klaua, Dieter Intervallstrukturen geordneter Körper. (**56** #13584)

Knebusch, Manfred Real closures of semilocal rings, and extension of real places. (**50** #7104)

van der Put, Marius Continuous derivations of valued fields. (**47** #8498)

Sarymsakov, T. A. (with Hadžiev, Dž.) L^* -structures metrized over semifields. (Russian. Uzbek summary) (**47** #5618)

Schikhof, W. H. A Radon-Nikodym theorem for non-archimedean integrals and absolutely continuous measures on groups. (**46** #314)

Shell, Niel Dimension of non-Archimedean Banach spaces. (**48** #4696)

Taibleson, Mitchell H. *See* Hunt, Richard A., (**47** #718)

Yadav, Ram Avtar Quadratic forms over Hensel fields. (**57** #9649)

12K05 Near-fields and other generalizations

Antonovskii, M. Ja. (with Azimov, D.) Decompositions of the Boolean algebra of idempotents, and the corresponding class of subsemifields. (Russian. Uzbek summary) **51** #12813

Azimov, D. *See* Antonovskii, M. Ja., **51** #12813

Bureš, Jarolím Construction of one type of a quasifield. **50** #7110

Ferentinou-Nikolopoulou, Ioanna Anneaux corpomorphes. **58** #625

Heatherly, Henry E. The additive group of a finite near-field is elementary abelian. **58** #16621

Leißner, Werner Ein Stufenaufbau der Fastbereiche, Fastkörper und Körper aus ihrer multiplikativen Gruppe. **58** #16622

Lenzi, Domenico (with Padula, Liana Guercia) Su una generalizzazione del concetto di quasi-corpo associativo. (English summary) **53** #8032

Ligh, Steve Finite hereditary near-field groups. **58** #27934

Lüneburg, Heinz Über die Anzahl der Dickson'schen Fastkörper gegebener Ordnung. **49** #266

Mazzola, Guerino Der Satz von der Zerlegung Finslerscher Zahlen in Primfaktoren. **45** #5112

Misfeld, Jürgen (with Timm, Jürgen) Topologische Dickson'sche Fastkörper. **46** #1768

Mittas, Jean Espaces vectoriels sur un hypercorps—introduction des hyperspaces affines et euclidiens. **58** #16623

Padula, Liana Guercia *See* Lenzi, Domenico, **53** #8032

Sabharwal, Ranjit S. Infinite planar left near-fields. **51** #12814

Semenova, V. Ė. Homomorphisms of universal topological semifields. (Russian. Uzbek summary) **51** #5569

Stratigopoulos, D. Le groupe de Galois des automorphismes d'un hypercorps sur un sous-hypercorps. **51** #12815

Timm, Jürgen *See* Misfeld, Jürgen, **46** #1768

Wähling, Heinz Automorphismen Dickson'scher Fastkörperpaare mit kleiner

Dicksongruppe. **53** #8033

Ein Zassenhauskriterium für unendliche Fastkörper. **55** #12712

Beispiel eines projektiven Fastkörpers mit nicht-projektiven Teilfastkörpern. **56** #2980

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Čilin, V. L. Regular subsemifields of topological semifields. (Russian) (**54** #10226)

Gusev, A. I. Some questions of the theory of modules over topological semifields. (Russian) (**58** #27690)

Hadžiev, Dž. See **Sarymsakov, T. A.**, (**46** #7329)

Johnsen, Erik (with Storer, Thomas) Combinatorial structures in loops. II. Commutative inverse property cyclic neofields of prime-power order. (**53** #12982)

(with Storer, Thomas) Combinatorial structures in loops. III. Difference sets in special cyclic neofields. (**53** #12983)

Kerby, William Sharply 2- and 3-transitive groups with kernels of finite index. (**57** #12655)

Kist, Günter Peter Punktiert-affine Inzidenzgruppen und Fastkörpererweiterungen. (**53** #1383)

Klouda, Josef See **Bureš, Jarolím**, (**55** #3957)

Komorí, Yuichi A relation between strongly regular rings and pseudo-fields. (**56** #408)

Ligh, Steve (with Neal, Larry) A note on Mersenne numbers. (**50** #230)

Menichetti, Giampaolo Sopra una classe di quasicorpi distributivi di ordine finito. (English summary) (**57** #13681)

Neal, Larry See **Ligh, Steve**, (**50** #230)

Sarymsakov, T. A. (with Hadžiev, Dž.) Topological modules over semifields of the first kind. (Russian) (**46** #7329)

Storer, Thomas See **Johnsen, Erik**, (**53** #12982) and **Johnsen, Erik**, (**53** #12983)

Wähling, Heinz Bericht über Fastkörper. (**58** #2599)

Zemmer, Joseph L. Valuation near-rings. (**47** #8637)

A note on doubly transitive permutation groups. (**58** #5866)

12Lxx Connections with logic

12L05 Decidability

Jarden, Moshe Elementary statements over large algebraic fields. **46** #1795

Mostowski, Tadeusz Analytic applications of decidability theorems. (Polish) **56** #5518

Penzin, Ju. G. Undecidability of fields of rational functions over fields of characteristic 2. (Russian) **52** #10705

Secondary classifications:

Gabbay, Dov M. The undecidability of intuitionistic theories of algebraically closed fields and real closed fields. (**47** #6466)

Hauschild, Kurt Rekursive Unentscheidbarkeit der Theorie der pythagoräischen Körper. (English summary) (**50** #9567)

Hodges, Wilfred Läuchli's algebraic closure of Q . (**54** #10014)

Jarden, Moshe Algebraically closed fields with distinguished subfields. (**54** #12517)

Kreeczmar, Antoni On infinite sets of polynomial relations. (Russian summary) (**56** #5277)

Penzin, Ju. G. Decidability of the theory of algebraic integers with addition and with congruences modulo divisors. (Russian) (**57** #2910)

Shoenfield, Joseph R. Quantifier elimination in fields. (**57** #100)

Soprunov, S. F. The power of a real-closed field. (Russian. English summary) (**51** #5294)

Welspönnig, Volker On the elementary theory of Hensel fields. (**55** #5437)

12L10 Ultraproducts

Bertrand, Daniel Application de la logique à un problème de dimension diophantienne sur les corps Q_p . **57** #12479

Brown, Ron Tamely ramified extensions of Henselian fields. **52** #5638

Meisters, Gary H. (with Monk, J. Donald) Construction of the reals via ultrapowers. **50** #292

Monk, J. Donald See **Meisters, Gary H.**, **50** #292

Spivakov, Ju. L. Algebraic extensions of the field of formal power series $F_p((t))$. (Russian. Uzbek summary) **52** #5639

Watanabe, Tetsuro Ultraproducts and Diophantine problems. **49** #4986

Secondary classifications:

Adler, Allan (with Kiefe, Catarina) Pseudofinite fields, procyclic fields and model-completion. (**54** #7245)

Bertrand, Daniel Le théorème d'Ax et Kochen. (**52** #13754)

Diarra, Bertin Ultra-produits de corps munis d'une valeur absolue ultra-métrique. (English summary) (**56** #2816)

Jarden, Moshe (with Kiehne, Ursel) The elementary theory of algebraic fields of finite corank. (**55** #8012)

The elementary theory of ω -free Ax fields. (**55** #8013)

Kiefe, Catarina See **Adler, Allan**, (**54** #7245)

Kiehne, Ursel See **Jarden, Moshe**, (**55** #8012)

Klingen, Norbert Elementar äquivalente Körper und ihre absolute Galoisgruppe. (**50** #9844)

Kochen, Simon The model theory of local fields. (**58** #27918)

Poizat, Bruno Groupes profinis et théorie de Galois. (**51** #5566)

Robinson, Abraham Model theory as a framework for algebra. (**49** #2365)

12L15 Nonstandard arithmetic [See also 02H25.]

Secondary classifications:

Cherlin, Gregory L. Ideals of integers in nonstandard number fields. (**55** #7768)

Dubrovsky, Diana L. Some subfields of Q_p and their non-standard analogues. (**50** #9845)

Macintyre, Angus J. On ω_1 -categorical theories of fields. (**45** #48)

Míček, Josef A representation of models of Peano arithmetic. (**48** #1917)

Robinson, Abraham On the notion of algebraic closedness for noncommutative groups and fields. (**45** #43)

Algebraic function fields and non-standard arithmetic. (**58** #682)

Nonstandard arithmetic and generic arithmetic. (**56** #5283)

Takahashi, Shuichi ★Méthodes logiques en géométrie diophantienne. (**51** #424)

12L99 None of the above, but in this section

Podewski, Klaus-Peter Minimale Ringe. **52** #13775

Secondary classifications:

Adler, Allan On the multiplicative semigroups of rings. (**58** #22166)

Asenjo, F. G. (with McKean, J. M.) Weierstrass's final theorem of arithmetic is not final. (**45** #6611)

Bienenstock, Elie Sets of degrees of computable fields. (**58** #16233)

Boffa, Maurice (with van Praag, Paul) Sur les corps génériques. (**45** #6607)

Cherlin, Gregory L. ★Model theoretic algebra—selected topics. (**58** #27455)

Model theoretic algebra. (**54** #90)

Forrest, William K. Model theory for universal classes with the amalgamation property: a study in the foundations of model theory and algebra. (**58** #202)

Fried, Michael D. (with Sacerdote, George S.) Solving Diophantine problems over all residue class fields of a number field and all finite fields. (**58** #10722)

Hodges, Wilfred On the effectivity of some field constructions. (**55** #10252)

Lacava, Francesco Teoria dei campi differenziali ordinati. (English summary) (**58** #210)

Macintyre, Angus J. On definable subsets of p -adic fields. (**58** #5182)

Madison, Eugene W. Some remarks on computable (non-Archimedean) ordered fields. (**45** #6624)

McKean, J. M. See **Asenjo, F. G.**, (**45** #6611)

van Praag, Paul See **Boffa, Maurice**, (**45** #6607)

Roquette, Peter Bemerkungen zur Theorie der formal p -adischen Körper. (**45** #8643)

Sacerdote, George S. See **Fried, Michael D.**, (**58** #10722)

Staples, John On constructive fields. (**45** #6587)

Toffalori, Carlo Alcune proprietà di teorie di campi con un sottocampo privilegiato. (English summary) (**58** #16272)

13–XX COMMUTATIVE RINGS AND ALGEBRAS [For finite commutative rings, see 12Cxx.]

(Bel'skii, A. A.) See **Bourbaki, Nicolas**, **50** #12996

Bourbaki, Nicolas ★Коммутативная алгебра. (Russian) [Commutative algebra] **50** #12996

★Elements of mathematics. Commutative algebra. **50** #12997

(Golod, E. S.) See **Bourbaki, Nicolas**, **50** #12996

Kaplansky, Irving ★Topics in commutative ring theory. **55** #322

Secondary classifications:

(Kuroš, A. G.) See **Collection: Reviews on algebra for the years 1941/1946**, (**52** #10315 (EA 53))

Algebra See **Collection: Reviews on algebra for the years 1941/1946**, (**52** #10315 (EA 53))

Collection:

Reviews on algebra for the years 1941/1946 ★Алгебранческий реферативный сборник за 1941–1946 гг. Вып. 1: Алгебра полиномов. Линейная алгебра. Теория полей. Теория колец и алгебр. (Russian) [A collection of reviews on algebra for the years 1941–1946. No. 1: Algebra of polynomials. Linear algebra. Theory of fields. Theory of rings and algebras] (**52** #10315 (EA 53))

13–01 Elementary exposition (collegiate level)

Florescu, Doru On finite rings. (Romanian) **58** #27935

Henriksen, Melvin A simple characterization of commutative rings without maximal ideals. **54** #12734

Lafon, Jean Pierre ★Algèbre commutative. **57** #300

Nagata, Masayoshi ★Local rings. **57** #301

Renschuch, Bodo ★Elementare und praktische Idealtheorie. **56** #2981

Ziegenbalg, Jochen Vollständige Quotientenringe in didaktischer Sicht. **51** #464

Secondary classifications:

Adamson, Iain T. ★Elementary rings and modules. (**49** #10719)

Borodin, A. I. See **Kazaček, N. A.**; et al., (**53** #13083)

Herstein, Israel Nathan ★Álgebra moderna. Grupos, anillos, campos, teoría de Galois. (Spanish) [Modern algebra. Groups, rings, fields, Galois theory] (**46** #5366)

Kazaček, N. A. (with Perlatov, G. N.; Vilenkin, N. Ja.; Borodin, A. I.) ★Алгебра и теория чисел. Часть III. (Russian) [Algebra and number theory. Part III] (**53** #13083)

(Lluis, Emilio) See **Herstein, Israel Nathan**, (**46** #5366)

Perlatov, G. N. See **Kazaček, N. A.**; et al., (**53** #13083)

Polcino Milies, Francisco César ★Anéis e módulos. [Rings and modules] (Portugese) (**48** #2168)

(Velasco Coba, Federico) *See* Herstein, Israel Nathan, (46 #5366)
 Vilenkin, N. Ja. *See* Kazaček, N. A.; et al., (53 #13083)

13-02 Advanced exposition (research surveys, etc.)

(Anderson, Daniel) *See* Murthy, M. Pavaman, 54 #10227 and Murthy, M. Pavaman, 56 #11976
 Atiyah, M. F. (with Macdonald, I. G.) ★Введение в коммутативную алгебру. (Russian) [Introduction to commutative algebra] 50 #2138
 (Buchsbaum, David A.) *See* Eisenbud, David, 54 #12735
 (Cohen, I. S.) *See* Zariski, O.; et al., 52 #5641
 Eisenbud, David Some directions of recent progress in commutative algebra. 52 #5640
 A survey of some results on free resolutions. 54 #12735
 Geramita, Anthony V. (with Small, Charles) ★Introduction to homological methods in commutative rings. 54 #5206
 Gilmer, Robert ★Multiplicative ideal theory. 55 #323
 Kaplansky, Irving ★Fields and rings. 50 #2139
 ★Commutative rings. 49 #10674
 Knight, J. T. ★Commutative algebra. 48 #8465
 Lafon, Jean Pierre ★Les formalismes fondamentaux de l'algèbre commutative. 51 #465
 Larsen, Max. D. (with McCarthy, Paul J.) ★Multiplicative theory of ideals. 54 #2629
 Macdonald, I. G. *See* Atiyah, M. F., 50 #2138
 (Manin, Ju. I.) *See* Atiyah, M. F.; et al., 50 #2138
 McCarthy, Paul J. *See* Larsen, Max. D., 54 #2629
 Murthy, M. Pavaman ★Commutative algebra. Vol. I. 54 #10227
 ★Commutative algebra. Vol. II. 56 #11976
 Samuel, Pierre *See* Zariski, O., 52 #5641 and Zariski, O., 52 #10706
 Small, Charles *See* Geramita, Anthony V., 54 #5206
 Vasconcelos, Wolmer V. ★The rings of dimension two. 55 #324
 Zariski, O. (with Samuel, Pierre) ★Commutative algebra. Vol. I. 52 #5641
 (with Samuel, Pierre) ★Commutative algebra. Vol. II. 52 #10706

Secondary classifications:

Auslander, Maurice (with Buchsbaum, David A.) ★Groups, rings, modules. (51 #3205)
 Buchsbaum, David A. *See* Auslander, Maurice, (51 #3205)
 Hochster, Melvin Some applications of the Frobenius in characteristic 0. (58 #5650)
 Lazard, Daniel Algorithmes fondamentaux en algèbre commutative. (55 #12713)
 McCoy, Neal H. ★The theory of rings. (52 #13901)
 Nagata, Masayoshi ★Polynomial rings and affine spaces. (58 #656)
 Oeljeklaus, Eberhard (with Remmert, Reinhold) ★Lineare Algebra. I. (51 #3190)
 Remmert, Reinhold *See* Oeljeklaus, Eberhard, (51 #3190)
 Abelian groups *See* American Mathematical Society Translations, Ser. 2, (53 #12819)
 American Mathematical Society Translations, Ser. 2 ★American Mathematical Society Translations. Ser. 2. Vol. 107. (53 #12819)

13-03 Historical

Kaplansky, Irving Commutative rings. 50 #12998

13-04 Explicit machine computation and programs (not the theory of computation or programming)

Secondary classifications:

More, Trenchard, Jr. An interactive method for algebraic proofs. (57 #18273)

13-06 Collections of papers; proceedings of conferences

(Borevič, Z. I.) *See* Rings and modules, 55 #2866 and Modules and representations, 56 #11977
 (Brewer, James W.) *See* Conference: Commutative Algebra, 48 #8466
 (Geramita, Anthony V.) *See* Conference: Commutative Algebra—, 52 #5642
 (Gordon, Robert) *See* Ring theory, 48 #8467
 (Guérindon, Jean) *See* Colloque: Algèbre Commutative, 50 #2140
 (Magid, Andy R.) *See* Ring theory, 48 #2125
 (McDonald, Bernard R.) *See* Ring theory, 48 #2125
 (Rutter, Edgar A., Jr.) *See* Conference: Commutative Algebra, 48 #8466
 (Skopin, A. I.) *See* Rings and modules, 55 #2866 and Modules and representations, 56 #11977
 (Smith, Kirby C.) *See* Ring theory, 48 #2125
 (Zelinsky, Daniel) *See* Brauer groups, 54 #12736
 Brauer groups ★Brauer groups. 54 #12736
 Colloque:
 Algèbre Commutative ★Colloque d'algèbre commutative (Rennes, 19-22 janvier 1972). 50 #2140
 ★Colloque d'Algèbre Commutative. 55 #325
 Commutative algebra *See* Conference: Commutative Algebra, 48 #8466; Colloque: Algèbre Commutative, 50 #2140; Conference: Commutative Algebra—, 52 #5642 and Colloque: Algèbre Commutative, 55 #325
 Conference:
 Brauer Groups *See* Brauer groups, 54 #12736
 Commutative Algebra ★Conference on Commutative Algebra. 48 #8466
 ★Conference on Commutative Algebra—1975. 52 #5642
 Oklahoma, Ring Theory *See* Ring theory, 48 #2125
 Ring Theory *See* Ring theory, 48 #8467
 Modules *See* Rings and modules, 55 #2866
 Modules and representations ★Модули и представления. (Russian) [Modules and

representations] 56 #11977

Publications:

Séminaires de Mathématiques *See* Colloque: Algèbre Commutative, 50 #2140
 Representations *See* Modules and representations, 56 #11977
 Ring theory ★Ring theory. 48 #8467
 ★Ring theory. 48 #2125
 Rings and modules ★Кольца и модули. (Russian) [Rings and modules] 55 #2866

Secondary classifications:

(Dubreil, Paul) *See* Séminaire: Algèbre Paul Dubreil, (57 #9736)
 (Kertész, Andor) *See* Rings, modules and radicals, (49 #5061)
 (Malliavin-Brameret, Marie-Paule) *See* Séminaire: Algèbre Paul Dubreil, (57 #9736)
 (Salmon, Paolo) *See* Categories and commutative algebra, (50 #2287)
 Algebra *See* Séminaire: Algèbre Paul Dubreil, (57 #9736)
 Categories and commutative algebra ★Categories and commutative algebra. (50 #2287)
 Centro Internazionale Mathematico Estivo (C.I.M.E.) *See* Categories and commutative algebra, (50 #2287)
 Colloquia Mathematica Societatis János Bolyai *See* Rings, modules and radicals, (49 #5061)
 Colloquium:
 Associative Rings, Modules and Radicals *See* Rings, modules and radicals, (49 #5061)
 Commutative algebra *See* Categories and commutative algebra, (50 #2287)
 Paris *See* Séminaire: Algèbre Paul Dubreil, (57 #9736)
 Rings, modules and radicals ★Rings, modules and radicals. (49 #5061)
 Séminaire:
 P. Dubreil *See* Séminaire: Algèbre Paul Dubreil, (57 #9736)
 Algèbre Paul Dubreil ★Séminaire d'Algèbre Paul Dubreil. 30ème année. (57 #9736)

13Axx General commutative ring theory

13A05 Divisibility

Bouvier, Alain Résultats nouveaux sur les anneaux présimplifiables. 47 #4982
 Coppey, Laurent Décompositions additives de N . 58 #16624
 Fletcher, Colin R. Euclidean rings. 45 #1891
 Kleiner, G. B. Realization of divisors, and factorable modules over Noetherian integrally closed rings. (Russian) 57 #5982
 Lüneburg, Heinz Was ist das kleinste gemeinsame Vielfache zweier rationaler Zahlen? 53 #5555
 Pickert, Günter Eine Bemerkung zu ggT und kgV . 53 #5556
 Roanes Macias, Eugenio A note on subrings and irreducible elements of unique factorization domains. (Spanish) 50 #7111
 Sepe, Fabrizio Anelli presemplificabili ed a -fattorizzazione unica. (English summary) 50 #7112
 Zafrullah, Muhammad Semirigid GCD domains. 54 #2630

13A10 Radical theory

Eckstein, Frank Perfekte Gabriel-Topologien. 57 #16274
 Enescu, I. On a class of nilpotent algebras of order five. (Romanian. French summary) 48 #6069
 Rjabuhin, Ju. M. (with Tèbyrcè, E. I.) Torsions and prime ideals of rings with a chain condition. (Russian) 51 #5570
 Tèbyrcè, E. I. *See* Rjabuhin, Ju. M., 51 #5570

Secondary classifications:

Tèbyrcè, E. I. The lattice of torsions in modules. (Russian) (54 #2714)

13A15 Ideals, prime ideals, valuations and generalizations

Aoyama, Kanroku On the structure space of a direct product of rings. 45 #1890
 Arezzo, D. (with Robbiano, Lorenzo) Sul completato di un anello rispetto ad un ideale di tipo finito. 46 #9018
 Artico, Giuliano (with Marconi, Umberto) On the compactness of minimal spectrum. 58 #626
 Barshay, Jacob Graded algebras of powers of ideals generated by A -sequences. 48 #11074
 Bertholf, Dennis E. *See* Wood, Craig A., 46 #3497
 Brase, Charles H. Valuation ideals with zero divisors. 47 #4983
 A note on intersections of valuation ideals. 46 #9019
 Bresinsky, H. (with Fuller, M. J.) Minimal bases of polynomial ideals. 57 #5983
 Brewer, James W. (with Heinzer, William) Associated primes of principal ideals. 49 #267
 (with Heinzer, William) Ideals I of $R[X]$ for which $R[X]/I$ is R -projective. 48 #8468
 Brown, David E. Valuations and rings of quotients. 50 #293
 Burosch, Gustav Über die Beziehungen zwischen den Primidealen Noetherscher Integritätsbereiche mit gleichem Quotientenkörper. II. 48 #3940
 Über Beziehungen zwischen den Primidealen Noetherscher Integritätsbereiche mit gleichem Quotientenkörper. III. 48 #3941
 Burton, Richard G. Fractional elements in multiplicative lattices. 51 #10313
 Calero Rosillo, Gonzalo On one case of the dimension of prime ideals in simple algebraic extensions of finite integral domains. (Spanish) 51 #5571a
 Fundamental ideals in simple algebraic correspondences of affine space. (Spanish) 51 #5571c

- Simple algebraic correspondences in affine space. I, II, III. (Spanish. English summary) **51** #5571b
- Chiaruttini, Sandra** (with Millevoi, Tomaso) Sulla proprietà di estensione nei domini noetheriani. (English summary) **54** #2631
- Davis, Edward D.** See **McAdam, Stephen J.** **56** #2983
- Descovich, J.** Ringe mit monotoner Moduldimension. **51** #466
- Detlefsen, Michael E.** Regularity in terms of reductions in local Noether lattices. **48** #6070
- Drozd, Ju. A.** (with Kiričenko, V. V.; Roggenkamp, K. V.) Orders with one irreducible representation. (Ukrainian. English and Russian summaries) **48** #8469
- Eggert, Norman H.** Dependence of valuations. **46** #1769
- Falvre, Wilfred** ★ Modules quadratiques sur un anneau de valuation discrète. **58** #22032
- Fakhraddin, Syed M.** Sur l'anneau de valuation discrète. (English summary) **54** #12737
- Fernández Bermejo, Emiliano** K -algebras and algebras of continuous functions. (Spanish) **50** #4557
- Fritzsche, Volkmar** Primideale und minimale Primärdeale in kommutativen Algebren mit Einselement. (Russian, English and French summaries) **54** #10228
- Froeschl, Paul A., III** Chained rings. **54** #12738
- Fuchs, László** Vector spaces with general valuations. **57** #5987
- Fuller, M. J.** See **Bresinsky, H.** **57** #5983
- Galuzzi, Massimo** Anelli regolari e costruzione di Joyal. (English summary) **57** #16275
- Gill, D. T.** Almost maximal valuation rings. **45** #1904
- Gilmer, Robert** On commutative rings of finite rank. **45** #1892
(with Heinzer, William) Cardinality of generating sets for ideals of a commutative ring. **56** #2982
- Girolami, Florida** (with Guazzzone, Stefano) Spezzamenti e omomorfismi di Gelfand. **54** #12739
- Guazzzone, Stefano** See **Girolami, Florida**, **54** #12739
- Hache, Jordane** Idéaux premiers d'un anneau de Bezout et d'un domaine pseudo-bezoutien. (English summary) **55** #326
- Harada, Manabu** On small submodules in the total quotient ring of a commutative ring. **57** #9679
On small ring homomorphisms. **58** #10855
- Hays, James H.** Reductions of ideals in commutative rings. **48** #2126
- Hedstrom, John R.** Domains of Krull type and ideal transforms. **47** #8502
(with Houston, Evan G., Jr.) Pseudo-valuation domains. II. **58** #5615b
(with Houston, Evan G., Jr.) Pseudo-valuation domains. **58** #5615a
- Heidema, J.** The lattice of radical ideals in a commutative ring is distributive. (Afrikaans. English summary) **45** #5120
- Heinzer, William** Minimal primes of ideals and integral ring extensions. **47** #8503
See also **Brewer, James W.**, **48** #8468; **Brewer, James W.**, **49** #267 and **Gilmer, Robert**, **56** #2982
- Herzog, Jürgen** (with Kunz, Ernst) Die Wertehalbgruppe eines lokalen Rings der Dimension 1. **45** #243
- Hochster, Melvin** The minimal prime spectrum of a commutative ring. **45** #1887
Criteria for equality of ordinary and symbolic powers of primes. **48** #2127
Expanded radical ideals and semiregular ideals. **47** #4984
- Hornell, James** Divisorial complete intersections. **47** #6668
- Houston, Evan G., Jr.** See **Hedstrom, John R.**, **58** #5615a and **Hedstrom, John R.**, **58** #5615b
- Huijsmans, C. B.** Some analogies between commutative rings, Riesz spaces and distributive lattices with smallest element. **50** #7113
- Inoue, Hiroshi** On valuations of polynomial rings of many variables. II. **46** #1770
On valuations of polynomial rings of many variables. III. **49** #4987
- Jacob, Geneviève** Polynômes représentant la fonction nulle sur un anneau commutatif unitaire. (English summary) **55** #327
- Johnson, Johnny A.** Semi-local lattices. **53** #8034
- Kiełpiński, Roman** (with Simson, Daniel) On the lattice of ideals in the ring of structural numbers. **50** #2143
(with Simson, Daniel) Decomposability of elements in the ring of structural numbers. **50** #2144
- Kinugasa, Yasuo** A note on the number of generators of an ideal. **45** #1893
- Kirby, David** (with Rand, D. A.) Regular rings and valuation ideals. **51** #470
- Kiričenko, V. V.** See **Drozd, Ju. A.**; et al., **48** #8469
- Kist, Joseph** Two characterizations of commutative Baer rings. **49** #4988
- Kiyek, K.** Homogene Pseudobewertungen. **46** #158
- Kračilov, K. K.** Projective hereditary radical closures in the lattice of subgroups of the infinite cyclic group. (Russian) **58** #22033
- Krasner, Marc** Valuations des anneaux et des corps non commutatifs. **45** #257
- Kuan, Wei Eihn** Some results on normality of a graded ring. **55** #328
- Kumar, Ravinder** See **Singh, Surjeet**, **47** #8505
- Kummer, Renate** (with Renschuch, Bodo) Potenzproduktideale. I. **46** #3495
- Kundert, Essayas George** Products of arbitrary inteals in the s - d -ring over the integers. **49** #7249
- Kuntz, Richard A.** Associated prime divisors in the sense of Krull. **47** #1788
Associated prime divisors in the sense of Noether. **51** #3134
- Kunz, Ernst** See **Herzog, Jürgen**, **45** #243
- Kuo, Wang Yueh Ngo** A note on properties of operations on ideals. **48** #8470
- Lal, Harbans** A remark on rings with primary ideals as maximal ideals. **46** #7212
Semi-primary ideals of commutative rings. **51** #467
- Laplaza, Miguel L.** Note on the ideals of the ring of entire functions. (Spanish) **45** #8645
- Le Donne, Attilio** Sull'algebra degli endomorfismi di una classe di moduli ridotti e senza torsione sui domini di Dedekind. **57** #12480
- Lestmann, Phillip** Simple going down in PI rings. **55** #5606
- Levitz, Kathleen B.** A characterization of general Z.P.I.-rings. II. **47** #197
A characterization of general Z.P.I.-rings. **45** #3381
- Lewis, William J.** The spectrum of a ring as a partially ordered set. **47** #3361
(with Ohm, Jack) Some remarks on the ordering of Spec R . **52** #13776
- (with Ohm, Jack) The ordering of Spec R . **53** #13183
- Marconi, Umberto** See **Artico, Giuliano**, **58** #626
- Maroscla, Paolo** Sugli anelli commutativi unitari in cui ogni ideale proprio è primo. (English summary) **51** #3135
Sur les anneaux de dimension zéro. (Italian summary) **52** #10707
- Mason, Gordon** z -ideals and prime ideals. **48** #280
- Matsuda, Ryūki** A property of primary ideals. **48** #2128
- Matsuda, Takateru** Some remarks on the properties of primary ideals. (Japanese) **58** #27936
- Matutat, Elisabeth** (with Renschuch, Bodo) Perfekte Ideale und Idealtypen von Dubreil. (Russian and English summaries) **50** #4558
- Mauve, Reinhard** Einrangige Bewertungsringe in kommutativen Ringen. **49** #268
- McAdam, Stephen J.** Contracted ideals. **45** #3382
Finite coverings by ideals. **48** #11075
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- Elkins, B. L.** A Galois theory for linear topological rings. **52** #10709
- Faith, Carl** Galois extensions of commutative rings. **54** #7443
- Ferrero, Miguel A.** Galois theory and Clifford algebras. **50** #12999 (EA 55/56) (E 53 #8106)
 On isomorphisms of weakly Galois extensions. **51** #472
 Correction to: "Galois theory and Clifford algebras" (Math. Notae **23** (1972/73), 99–101). **53** #8106
- Ganske, G.** (with McDonald, Bernard R.) Finite local rings. **51** #473
- Holleman, Aalbert** ★Inseparable algebras: An investigation of the concept of modularity for commutative rings. (Dutch introduction and summary) **48** #3945
- Kanzaki, Teruo** (with Kitamura, Kazuo) On odd type Galois extension with involution of semi-local rings. **51** #8091
- Kitamura, Kazuo** *See Kanzaki, Teruo*, **51** #8091
- Knebusch, Manfred** Real closures of commutative rings. I. **52** #8105
 Real closures of commutative rings. II. **55** #2870
- Kreimer, H. F.** Galois theory and ideals in commutative rings. **52** #3129
 Galois theory and the existence of maximal unramified subalgebras. **50** #4562
 (with Cook, P. M., II) Galois theories and normal bases. **54** #12740
- Magid, Andy R.** A separably closed ring with nonzero torsion pic. **47** #1791
- van Kampen, theorem for separable algebras.** **47** #1792
 ★The separable Galois theory of commutative rings. **50** #4563
 Principal homogeneous spaces and Galois extensions. **52** #3130
- Martinez, Juan José** The first cohomology group of a commutative ring. **48** #2130
- McDonald, Bernard R.** *See Ganske, G.*, **51** #473
- Merkur'ev, A. S.** A seven-term sequence in the theory of Galois rings. (Russian) **58** #10858
- Nagahara, Takasi** On separable polynomials over a commutative ring. III. **49** #10676
 An imbedding theorem for separable algebras. **48** #2131
 On a theorem of F. DeMeyer. **48** #11079
 Imbeddings of some separable extensions in Galois extensions. **51** #3140
 Imbeddings of some separable extensions in Galois extensions. II. **54** #10230
- Nakajima, Atsushi** On a group of cyclic extensions over commutative rings. **47** #6670
 On a group of cyclic extensions over commutative rings. II. **49** #8974
- Okada, Tadashige** (with Saitō, Ryō) A generalization of P. Roquette's theorems. **47** #4987
- Picco, D. J.** (with Platzeck, Maria Inés) On free abelian extensions. **53** #5560
- Platzeck, Maria Inés** *See Picco, D. J.*, **53** #5560
- Saitō, Ryō** *See Okada, Tadashige*, **47** #4987
- Sankaran, N.** Galois extensions of rings and generalised group extensions. **58** #5624
- Small, Charles** Normal bases for quadratic extensions. **52** #366
- Suwa, Yuriko** A note on the five term exact sequence concerning Galois extensions and normal bases. **50** #7116
- Takeuchi, Yasuji** On strongly radical extensions. **51** #10315
- Wang, Stuart Sui Sheng** Splitting ring of a monic separable polynomial. **58** #5625

Secondary classifications:

- Childs, Lindsay N.** (with Magid, Andy R.) The Picard invariant of a principal homogeneous space. (49 #5021)
- Cox, S. H., Jr.** The preparation theorem and the freeness of $A[[X]]/I$. (55 #351)
- Dress, Andreas W. M.** On signatures of Green functors. (52 #3309)
- Hattori, Akira** On groups $H^*(S, G)$ and the Brauer group of commutative rings. (58 #16626)
- Magid, Andy R.** Correction to: "The separable closure of some commutative rings" (Trans. Amer. Math. Soc. 170 (1972), 109-124). (50 #2370)
See also **Childs, Lindsay N.**, (49 #5021)
- McDonald, Bernard R.** ★Finite rings with identity. (50 #7245)
- Parimala, S.** (with Sridharan, R.) Projective modules over quaternion algebras. (56 #5652)
- Roark, Charles Winfred** Separable criteria for G -diagrams over commutative rings. (55 #10533)
- Sridharan, R.** See **Parimala, S.**, (56 #5652)
- (Venkov, B. B.) See **Modules and homology in group theory and Galois theory**, (56 #8717)
- Galois theory** See **Modules and homology in group theory and Galois theory**, (56 #8717)
- Group theory** See **Modules and homology in group theory and Galois theory**, (56 #8717)
- Modules and homology in group theory and Galois theory** ★Modules and homology in group theory and Galois theory. (56 #8717)

13B10 Automorphisms and derivations

- Becker, Joseph A.** (with Brown, William C.) On extending higher derivations generated by cup products to the integral closure. 53 #13187
- Brown, William C.** (with Kuan, Wei Eihn) Ideals and higher derivations in commutative rings. 45 #3388 (E 55 #8015)
An application of the algebra of differentials of infinite rank. 46 #159
A note on higher derivations and integral dependence. 46 #1771
The algebra of differentials of infinite rank. 47 #3364
Higher derivations on finitely generated integral domains. 49 #2692
Higher derivations on finitely generated integral domains. II. 51 #12819
Higher derivations and tensor products of commutative rings. 57 #9681
See also **Becker, Joseph A.**, 53 #13187 and **Kuan, Wei Eihn**, 55 #8015
- Castillon, Jean-Bernard** Groupe fini d'automorphismes des anneaux de polynômes et de séries formelles. 45 #248
- Chiplunkar, A. V.** Global dimension of algebra of differential operators. 52 #10710
- Chung, I. Y.** Complexes over extension algebras. 47 #1793
Derivation modules of free joins and m -adic completions of algebras. 45 #5122
- Endô, Akira** Finite automorphism groups of restricted formal power series rings. II. 56 #11979
- Evyatar, A. A.** (with Villamayor, Orlando E.) Taylor series and divisibility. 50 #9849
- Fried, Ervin** Automorphism group of integral domains fixing a given subring. 56 #2985
- Furuya, Mamoru** A remark on higher derivations of commutative rings. (Japanese) 58 #16628
An application of higher differential algebra of local rings. 54 #10231
- Gerstenhaber, Murray** The fundamental form of an inseparable extension. 55 #2871
- Gupta, Surender K.** A note on derivations of commutative rings. 52 #367
- Hart, Robert** Derivations on commutative rings. 50 #2147
- Heerema, Nickolas** Exponential automorphisms of complete local rings. 54 #2633
- Ishibashi, Yasunori** A characterization of one dimensional regular local rings in terms of high order derivations. 50 #13000
Some remarks on high order derivations. 51 #3141
A note on a lemma of Zariski. 58 #16629
- Kim, Joong Ho** R -automorphisms of $R[t][[X]]$. 47 #3365
- Kishimoto, Kazuo** A note on submodules of a Galois extension of a ring with a cyclic Galois group of order p^n . 57 #9682
- Kitamura, Kazuo** On the free quadratic extensions of a commutative ring. 48 #6071
- Kramer, Kenneth** Colength of derivation ideals. 47 #6671
- Kreimer, H. F.** Automorphisms of commutative rings. 53 #384
- Kuan, Wei Eihn** A note on a lemma of Zariski and higher derivations. 48 #11080
An addendum to: "Ideals and higher derivations in commutative rings" (Canad. J. Math. 24 (1972), 400-415) by W. C. Brown and Kuan. 55 #8015
See also **Brown, William C.**, 45 #3388 (E 55 #8015)
- Kühner, J.** Über Separabilität und Automorphismengruppen kommutativer Ringe. 55 #12714
- Kundert, Esayas George** On the algebra structure of the s - d -ring over \mathbb{Z}_p , I, II. (Italian summaries) 49 #2693
The inteval structure in the s - d -ring over the integers. 47 #3366
Linear operators on certain completions of the s - d -ring over the integers. I. (Italian summary) 54 #5210a
Linear operators on certain completion of the s - d -rings over the integers. II. (Italian summary) 54 #5210b
- Laquain, Yves** Anneaux de valuation D -stables. 47 #8507
Differential simplicity and extensions of a derivation. 48 #6072
- Matsumura, Hideyuki** Noetherian rings with many derivations. 57 #5989
- Moen, Selmer** Free derivation modules and a criterion for regularity. 47 #1794
- Molinelli, Silvia** Sul rango del modulo delle derivazioni di un anello non integro. 58 #16630
- Mount, Kenneth R.** (with Villamayor, Orlando E.) On a conjecture of Y. Nakai. 48 #6073
- Müller, Winfried B.** The algebra of derivations. (Spanish) 52 #368
- Nakai, Yoshikazu** On a ring with a plenty of high order derivations. 47 #3367
- Nishimura, Jun-ichi** See **Suzuki, Satoshi**, 51 #12821
- Orbanz, Ulrich** Tensorprodukt und höhere Derivationen. 49 #2694
Höhere Derivationen und Regularität. 48 #6074
- Ribenboim, Paulo** The differential spectrum of a ring. 48 #11081

- Rosenlicht, Maxwell** Canonical forms for local derivations. 47 #3368
- Satô, Shizuka** On the kernel of a higher derivative. 46 #5298
On a derivation projective algebra. 48 #2132
On the primary decomposition of differential ideals. 53 #385
Some results on differential ideals in a Noetherian ring. 58 #630
- Scheja, Günter** (with Storch, Uwe) Differentielle Eigenschaften der Lokalisierung analytischer Algebren. 46 #5299
- Storch, Uwe** See **Scheja, Günter**, 46 #5299
- Suzuki, Satoshi** ★Differentials of commutative rings. 51 #12820
(with Nishimura, Jun-ichi) Higher differential algebras of discrete valuation rings. 51 #12821
- Villamayor, Orlando E.** See **Mount, Kenneth R.**, 48 #6073 and **Evyatar, A. A.**, 50 #9849
- Vinogradov, A. M.** The algebra of logic of the theory of linear differential operators (Russian) 46 #3498
- Weisfeld, Morris** Higher derivations and algebras over a field of characteristic zero. 51 #12822
- Zinn-Justin, Nicole** Dérivées logarithmiques et dérivées logarithmiques d'unités. (English summary) 58 #10859

Secondary classifications:

- Berndt, Rolf** Über die Spur arithmetisch ganzer Differentiale. (Italian summary) (54 #5238)
- David, John E.** On the endomorphisms of a polynomial ring. (53 #2951)
- Hart, Robert** Derivations on regular local rings of finitely generated type. (51 #5602)
- Heuser, Ansgar** Eine Anwendung der Hasse-Schmidt-Differentiale auf ein Verzweigungsproblem. (50 #295)
- Kowalski, Michał** Linear independence in linear rings with abstract differentiation. (54 #10222)
- Lantz, David C.** R -automorphisms of $R[G]$ for G abelian torsion-free. (55 #8022)
- Miyanishi, Masayoshi** (with Nakai, Yoshikazu) Some remarks on strongly invariant rings. (51 #10357)
- Mount, Kenneth R.** (with Villamayor, Orlando E.) An algebraic construction of the generic singularities of Boardman-Thom. (50 #1283)
- Nagata, Masayoshi** ★On automorphism group of $k[x, y]$. (49 #2731)
- Nakai, Yoshikazu** See **Miyanishi, Masayoshi**, (51 #10357)
- Ribenboim, Paulo** The differential spectrum of a ring. (48 #8503)
- Scheja, Günter** (with Storch, Uwe) Über Spurfunktionen bei vollständigen Durchschnitten. (52 #13867)
- Seidenberg, Abraham** Derivations and valuation rings. (58 #5617)
- Storch, Uwe** See **Scheja, Günter**, (52 #13867)
- Villamayor, Orlando E.** See **Mount, Kenneth R.**, (50 #1283)

13B15 Ramification theory

- Heuser, Ansgar** Eine Anwendung der Hasse-Schmidt-Differentiale auf ein Verzweigungsproblem. 50 #295
- Kawahara, Yūsaku** (with Uchibori, Tomio) A characterization of ramification index by high order differentials in Dedekind domains. 50 #2148
- Querré, Julien** Sur un théorème de Mori-Nagata. (English summary) 56 #2986
- Scheja, Günter** (with Storch, Uwe) ★Lokale Verzweigungstheorie. 54 #294
- Storch, Uwe** See **Scheja, Günter**, 54 #294
- Uchibori, Tomio** See **Kawahara, Yūsaku**, 50 #2148
- Williamson, Susan** Addendum: "II-principal hereditary orders" (Nagoya Math. J. 3 (1968), 41-65). 50 #4564

Secondary classifications:

- Chiari, Nadia** Seminormalità e ramificazione. (English summary) (53 #424)
- Epp, Helmut P.** Eliminating wild ramification. (48 #294)
- Moser, Nicole** Arithmétique dans des extensions finies du corps des quotients de certains anneaux de Prüfer. (48 #6059)
- Sathaye, Avinash** On linear planes. (53 #13227)

13B20 Integral dependence; integral closure; integrally closed rings, related rings (Japanese, etc.)

- Akiba, Tomoharu** (with Nagata, Masayoshi) On normality of a Noetherian ring. 58 #631
- Bărcănescu, Șerban** Interpolation formulas. (Romanian) 58 #27938
- Bruns, Winfried** Die Divisorenklassengruppe der Restklassenringe von Polynomringen nach Determinantenidealen. 52 #13786
- Butts, Hubert S.** (with Yeagy, R. W.) Finite bases for integral closures. 53 #386
- Chabert, J.-L.** Anneaux de Fatou. 49 #8975
- Dassow, Jürgen** Normalität und Loewy-Invarianten bei monoidalen Transformationen. 50 #296
- Davis, Edward D.** Integrally closed pairs. 49 #271
Overrings of commutative rings. III. Normal pairs. 48 #3946
- Dobbs, David E.** On going down for simple overrings. 54 #5211
Ascent and descent of going-down rings for integral extensions. 55 #330
(with Papick, Ira J.) On going-down for simple overrings. III. 54 #5212
- Flamant, Maurice** See **Henoud, Leila**, 48 #11082
- Gianni, Patrizia** Morfismi interi delle varietà algebriche. (English summary) 58 #632
- Gilmer, Robert** A note on the integral closure of a Dedekind domain. 56 #8546
- Gudović, I. S.** A test for a system of vectors in a certain module to form a basis (Russian) 58 #5626
- Henoud, Leila** (with Flamant, Maurice) Éléments de trace nulle dans une extension cyclique non ramifiée. 48 #11082
- Hochster, Melvin** Contracted ideals from integral extensions of regular rings. 50 #2148
- Huckaba, James A.** The integral closure of a Noetherian ring. 53 #5561

- Antz, David C.** Finite Krull dimension, complete integral closure and GCD-domains. **52** #3131
- Apšitz, Leonard** Integral closures of uncountable commutative regular rings. **58** #5627
- Canaresi, Mirella** Una caratterizzazione della seminormalizzazione. (English summary) **58** #633
- Carot, Jean** Sur les anneaux universellement japonais. **50** #4565
Sur les anneaux universellement japonais. **53** #10779
- Maue, Reinhard** Eine Bemerkung über minimale nicht-ganze Ringerweiterungen. **49** #272
- McAdam, Stephen J.** Going down and open extensions. **50** #9850
Simple going down. **53** #5562
- Nagata, Masayoshi** See **Akiba, Tomoharu**, **58** #631
- Nishimura, Jun-ichi** Note on integral closures of a Noetherian integral domain. **53** #13188
- Ostrowski, Alexander M.** Algebraic closure of modules. **56** #11980
On Kronecker's elimination theory. **58** #16631
- Apick, Ira J.** See **Dobbs, David E.**, **54** #5212
- Puerré, Julien** Sur une caractérisation d'un anneau de Krull. (English summary) **51** #12823
Sur le groupe des classes de diviseurs. (English summary) **56** #2987
- Ratliff, Louis J., Jr.** On prime divisors of the integral closure of a principal ideal. **47** #200
On the integral closure of a ring in an over-ring. **53** #387
Notes on local integral extension domains. **57** #5990
- Sally, Judith D.** A note on integral closure. **47** #201
- Selzenberg, Abraham** Construction of the integral closure of a finite integral domain. II. **54** #12741
- Seydi, Hamet** La théorie des anneaux japonais. **51** #3142
A propos du critère jacobien de lissité formelle de Nagata. **49** #2695
- Simis, Aron** Going down for monoidal transforms. **56** #8547
- Teagay, R. W.** See **Butts, Hubert S.**, **53** #386

Secondary classifications:

- Anderson, David F.** Subrings of $k[X, Y]$ generated by monomials. (**57** #3121)
- Burton, Richard G.** Integral closure in multiplicative lattices. (**55** #209)
- Schebeck, Friedrich** Zwei Bemerkungen über seminormale Ringe. (**55** #5625)
- Amèche-Gérardin, Khyra** Quotient d'Hadarnard de séries rationnelles à plusieurs variables non commutatives. (**56** #12045)
- Maquin, Yves** Differential simplicity and a criterion for normality. (**50** #9861)
- McAdam, Stephen J.** See **Ratliff, Louis J., Jr.**, (**55** #10438a)
- Leggers, Joseph** On rings with many endomorphisms. (**55** #2975)
- Ratliff, Louis J., Jr.** (with **McAdam, Stephen J.**) Maximal chains of prime ideals in integral extension domains. I. (**55** #10438a)
Maximal chains of prime ideals in integral extension domains. II. (**55** #10438b)
 H -semilocal domains and altitude $R[c/b]$. (**56** #342)
Going between rings and contractions of saturated chains of prime ideals. (**56** #5522)
- Lawtelle, Peter G.** Quasi-unmixedness and integral closure of Rees rings. (**53** #2924)
- Taganaro, Ezio** Sopra alcune estensioni delle nozioni di dipendenza integrale e di fattorialità, ed applicazioni geometriche. (English summary) (**45** #8653)
- Loia, Manuela** Reduced and normal points of a flat morphism. (**54** #10264)
- Alpera, M. Cristina** On some classes of quasi-regular rings. (Italian summary) (**58** #628)

13B25 Polynomials over commutative rings

- Abhyankar, Shreeram Shankar** (with **Heinzer, William**; **Eakin, Paul M.**) On the uniqueness of the coefficient ring in a polynomial ring. **46** #5300
- Biš, M.** The Herstein property of matrix polynomials. (Russian) **56** #334
- Bramov, S. A.** A class of functions of integer-valued variables. (Russian) **58** #634
- Gou, Simon** Formules explicites intervenant dans la division euclidienne des polynômes à coefficients dans un anneau unitaire et applications diverses. **48** #2133
- Antoy, Sergio** Sul calcolo del gruppo di Picard di certe estensioni intere semplici. **52** #13805
Sul calcolo del gruppo di Picard di certe estensioni intere semplici. (English summary) **48** #11083
- Rezzolo, D.** Sugli ideali massimali principali degli anelli di polinomi. **46** #7216
- Arnold, Jimmy T.** The dimension of the ring of coefficients in a polynomial ring. **50** #13001
- Bass, Hyman** (with **Connell, E. H.**; **Wright, David Lee**) Locally polynomial algebras are symmetric. **54** #2634
- Brewer, James W.** (with **Montgomery, Philip**; **Rutter, Edgar A., Jr.**; **Heinzer, William**) Krull dimension of polynomial rings. **49** #2696
(with **Montgomery, Philip**) The finiteness of I when $R[X]/I$ is R -projective. **48** #2134
- Cahen, Paul-Jean** (with **Chabert, J.-L.**) Coefficients et valeurs d'un polynôme. **45** #5126
Polynômes et dérivées à valeurs entières. **53** #388
- Chabert, J.-L.** Anneaux de Fatou. Anneaux de polynômes à valeurs entières. **53** #8035
See also **Cahen, Paul-Jean**, **45** #5126
- Connell, E. H.** See **Bass, Hyman**; et al., **54** #2634
- Davis, Edward D.** (with **Geramita, Anthony V.**) Maximal ideals in polynomial rings. **49** #2697
- DeMeyer, Frank** Separable polynomials over a commutative ring. **45** #3390
On separable polynomials over a commutative ring. **49** #10677
- Eakin, Paul M.** (with **Kubota, Kenneth K.**) A note on the uniqueness of rings of coefficients in polynomial rings. **45** #6815
See also **Abhyankar, Shreeram Shankar**; et al., **46** #5300
- Ossum, Robert M.** Rings of invariants of groups acting on polynomial rings. **52** #13787
- Fraser, Marshall** (with **Mader, Adolf**) The structure of the automorphism group of polynomial rings. **47** #4988
- Gabel, Michael Randy** Lower bounds on the stable range of polynomial rings. **53** #5563
- Geramita, Anthony V.** Polynomial rings with the outer product property. **48** #2135
Maximal ideals in polynomial rings. **47** #6672
See also **Davis, Edward D.**, **49** #2697
- Green, Edward L.** Complete intersections and Gorenstein ideals. **58** #635
- Hamann, Eloise** On the R -invariance of $R[x]$. **53** #8036
- Heinzer, William** See **Abhyankar, Shreeram Shankar**; et al., **46** #5300 and **Brewer, James W.**; et al., **49** #2696
- Hirabuki, Shinkichi** (with **Matsuda, Ryūki**) Notes on irreducibility of polynomials. **54** #10232
- Hochster, Melvin** Nonuniqueness of coefficient rings in a polynomial ring. **45** #3394
- Jacob, Geneviève** Parties denses au sens de Zariski d'un anneau commutatif unitaire. (English summary) **56** #335
- Kowol, Gerhard** Gruppen von Polynomen über Ringen. **57** #3109
- Kubota, Kenneth K.** See **Eakin, Paul M.**, **45** #6815
- Laban, Miloš** On the definition of polynomial, homomorphism, derivative and first difference. **49** #273
- Mader, Adolf** See **Fraser, Marshall**, **47** #4988
- Matsuda, Ryūki** See **Hirabuki, Shinkichi**, **54** #10232
- Maue, Reinhard** Halbe und minimale Ringerweiterungen. **47** #8508
- McAdam, Stephen J.** Minimal primes, going down and open extensions. **52** #3132
- Mignotte, Maurice** Un critère d'irréductibilité des polynômes. **48** #6075
- Montgomery, Philip** See **Brewer, James W.**, **48** #2134 and **Brewer, James W.**; et al., **49** #2696
- Nagahara, Takasi** On separable polynomials over a commutative ring. II. **47** #6673
(with **Nakajima, Atsushi**) On separable polynomials over a commutative ring. IV. **51** #474
- Nakajima, Atsushi** See **Nagahara, Takasi**, **51** #474
- Okada, Tadashige** (with **Saitō, Ryō**) A note on twisted polynomial rings. **47** #6674
- Prószyński, A.** On orthogonal decomposition of homogeneous polynomials. **57** #5991
Some functors related to polynomial theory. **57** #5992
- Ratliff, Louis J., Jr.** Conditions for $\text{Ker}(R[X] \rightarrow R[c/b])$ to have a linear base. **47** #4989
- Rutter, Edgar A., Jr.** See **Brewer, James W.**; et al., **49** #2696
- Sabbagh, Gabriel** Coherence of polynomial rings and bounds in polynomial ideals. **50** #297
- Saitō, Ryō** See **Okada, Tadashige**, **47** #6674
- Small, Charles** Integer polynomials with prescribed integer values. **47** #4990
- Sturz, L.** Polynomials that have rational roots simultaneously with their derivatives. (Romanian. Russian and French summaries) **49** #4989
- Szendrei, Ágnes** On the arity of affine modules. **57** #5988
- Tamone, Grazia** Su certi ideali massimali degli anelli di polinomi. **52** #13806
Su certi ideali massimali degli anelli di polinomi. (English summary) **50** #298
- Uzkov, A. I.** More on the content of a product of polynomials. (Russian) **52** #13788
- Valla, Giuseppe** Sui polinomi generanti un ideale massimale principale. (English summary) **54** #295
- Wright, David Lee** Algebras which resemble symmetric algebras. **53** #5564
See also **Bass, Hyman**; et al., **54** #2634

Secondary classifications:

- Allen, A. L.** (with **Moran, Siegfried**) The inverse limit of some free algebras. (**49** #369)
- Becker, Joseph A.** Higher derivations and the Zariski-Lipman conjecture. (**56** #3004)
- Clark, W. Edwin** (with **Liang, Joseph J.**) Enumeration of finite commutative chain rings. (**49** #2679)
- Eisenbud, David** (with **Evans, E. Graham, Jr.**) Every algebraic set in n -space is the intersection of n hypersurfaces. (**48** #6125)
- Evans, E. Graham, Jr.** See **Eisenbud, David**, (**48** #6125)
- Flamant, Maurice** See **Henoud, Leila**, (**51** #12805)
- Glaz, Sarah** (with **Sally, Judith D.**; **Vasconcelos, Wolmer V.**) Lüroth's problem for rings. (**55** #2942)
- Grazzini, Fulvio** See **Haouat, Youssef**, (**55** #10430)
- Haouat, Youssef** (with **Grazzini, Fulvio**) Polynômes et différences finies divisées. (English summary) (**55** #10430)
- Henoud, Leila** (with **Flamant, Maurice**) Extensions cycliques non ramifiées. (**51** #12805)
- Liang, Joseph J.** See **Clark, W. Edwin**, (**49** #2679)
- Lindel, Hartmut** Wenn B ein Hauptidealring ist, so sind alle projektiven $B[X, Y]$ -Moduln frei. (**53** #10802)
- Miyazishi, Masayoshi** Some remarks on polynomial rings. (**49** #2726)
- Moran, Siegfried** See **Allen, A. L.**, (**49** #369)
- Musser, David R.** Multivariate polynomial factorization. (**53** #335a)
- Parimala, S.** Erratum: "Projective modules and Hermitian matrices" (J. Pure Appl. Algebra 7 (1976), no. 1, 5-14). (**57** #306)
- Robinson, Abraham** On bounds in the theory of polynomial ideals. (**49** #2364)
- Roitman, Moshe** Completing unimodular rows to invertible matrices. (**56** #12033)
- Rozenknop, I. Z.** Relations between polynomials and the algebra of H. Cartan. (Russian) (**45** #6889)
- Polynomial ideals that are generated by monomials. (Russian) (**45** #6890)
- Sally, Judith D.** See **Glaz, Sarah**; et al., (**55** #2942)
- Vámos, Peter** The Nullstellensatz and tensor products of fields. (**56** #15623)
- Vasconcelos, Wolmer V.** See **Glaz, Sarah**; et al., (**55** #2942)
- Wang, Stuart Sheng** Splitting ring of a monic separable polynomial. (**58** #5625)

13B99 None of the above, but in this section

- Adams, John Conway** Rings with a finitely generated total quotient ring. **50** #7117
- Adranghi, M. R.** See **Kirby, David**, **58** #636

- Armendariz, Efraim P. Rings with an almost Noetherian ring of fractions. **57** #305
- Bastida, Eduardo R. The Krull-Akizuki theorem in the abstract. **48** #3947
- Bertin, Jean-Étienne Sur les Q -anneaux de Matlis. **56** #336
- Boisen, Monte B., Jr. The containment property for large quotient rings. **47** #202
(with Sheldon, Philip B.) CPI-extensions: overrings of integral domains with special prime spectrums. **56** #5520
- Borho, Walter Extensions essentielles d'anneaux commutatifs per des éléments idempotents. **48** #8476
- Brewer, James W. (with Rutter, Edgar A., Jr.) A note on the faithfulness of the functor $S \otimes_R (-)$. **49** #7250
Flat ring extensions of a commutative ring. **48** #8477
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- Vasconcelos, Wolmer V. Rings on global dimension two. **49** #4994
The λ -dimension of a ring. **53** #2927
Super-regularity in local rings. **52** #8111
- Zaharov, V. K. The isomorphism between the cohomology groups of a locally compact space and the extension groups of modules. (Russian) **57** #5996

Secondary classifications:

- Aoyama, Yôichi A remark on almost complete intersections. (**58** #10872)
- Brewer, James W. (with Rutter, Edgar A., Jr.; Watkins, J. J.) Coherence and the global dimension of $R[[X]]$ when R is von Neumann regular. (**56** #5533)
- Chiplunkar, A. V. Global dimension of algebra of differential operators. (**52** #1071)
- Fieldhouse, David J. Regular rings and modules. (**47** #6761)
- Herzog, Jürgen Ringe der Charakteristik p und Frobeniusfunktoren. (**50** #4569)
- Levin, Gerson Two conjectures in the homology of local rings. (**49** #7334)
- Peskine, Christian (with Szpiro, Lucien) Dimension projective finie et cohomologie locale. Applications à la démonstration de conjectures de M. Auslander, H. Bass et Grothendieck. (**51** #10330)
- Quentel, Yann Sur le théorème d'Auslauder-Buchsbaum. (**46** #165)
- Rutter, Edgar A., Jr. See Brewer, James W.; et al., (**56** #5533)
- Schenzel, Peter Einige Anwendungen der lokalen Dualität und verallgemeinerte Cohen-Macaulay-Moduln. (**53** #2940)
- Sharp, Rodney Y. A note on Northcott's work on generalized Koszul complexes Artinian modules. (**52** #13801)
- Stroganov, S. S. Flat morphisms. (Russian) (**54** #12756)
- Szpiro, Lucien See Peskine, Christian, (**51** #10330)
- Watkins, J. J. See Brewer, James W.; et al., (**56** #5533)

13D10 Deformations and infinitesimal methods

- André, Michel La $(2p+1)$ -ème déviation d'un anneau local. **58** #10865
- Castillon, Jean-Bernard (with Micali, Artibano) Nombres et séries de Betti. **58** #5636
- Ghione, Franco La série de Poincaré d'un anneau local déterminantiel. (English summary) **52** #13803
- Matsuoka, Tadayuki Note on Betti-numbers of the module of differentials. **45** #250
- Micali, Artibano See Castillon, Jean-Bernard, **58** #5636
- Stanley, Richard P. Hilbert functions of graded algebras. **58** #5637
- Stroganov, S. S. Poincaré series. (Russian) **58** #10866

Secondary classifications:

- Briske, Rainer Saturierte Moduln und André-Kohomologie in der affinoiden Geometrie. (**53** #13634)
André-Homologie für gewisse Kategorien von Ringen mit Fasersumme. (**55** #5887)

- Elorme, Charles** Exemples de croissance de la cohomologie par spécialisation. (56 #15646)
- Atvany, Csaba** Extensions of analytical algebras. (57 #10007)
- Kramm, Bruno** (with Schuster, Hans-Werner) Über die Cohomologie analytischer Algebren. (56 #3356)
- Schuster, Hans-Werner** See **Kramm, Bruno**, (56 #3356)

13D15 Class group, Grothendieck group, K -theory [See also 18F25.]

- Clark, Anthony** Grothendieck groups of modules and forms over commutative orders. 56 #8548
- Bass, Hyman** (with Wright, David Lee) Localisation in the K -theory of invertible algebras. 54 #12747
- Bergman, George M.** See **Clark, W. Edwin**, 47 #210
- Buchsbaum, David A.** (with Eisenbud, David) Algebra structures for finite free resolutions, and some structure theorems for ideals of codimension 3. 56 #11983
- Arral, Michel** K -théorie dans les anneaux mous. (English summary) 54 #10237
- Childs, Lindsay N.** Mayer-Vietoris sequences and Brauer groups of nonnormal domains. 49 #8979
- Ho, In Ho** A note on $K_0(I)$. 56 #2990
- Clark, W. Edwin** (with Bergman, George M.) The automorphism class group of the category of rings. 47 #210
- Condutché, Daniel** Groupe de Grothendieck associé aux anneaux semi-locaux de dimension 1. 47 #211
- Connell, E. H.** (with Siu, Man Keung) Localization in algebraic K -theory. 49 #10682
- Dennis, R. Keith** (with Stein, Michael R.) A new exact sequence for K_2 and some consequences for rings of integers. 46 #1775
- (with Stein, Michael R.) Injective stability for K_2 of local rings. 51 #8097
- (with Magid, Andy R.) K_2 of von Neumann regular rings. 54 #10238
- See also **Stein, Michael R.**, 53 #10782
- Eakin, Paul M.** (with Heinzer, William) More noneuclidean PID's and Dedekind domains with prescribed class group. 47 #8516
- Eisenbud, David** (with Evans, E. Graham, Jr.) Basic elements: Theorems from algebraic K -theory. 45 #6807
- (with Evans, E. Graham, Jr.) Generating modules efficiently: theorems from algebraic K -theory. 48 #6084
- See also **Buchsbaum, David A.**, 56 #11983
- Nochs, Edgar** A proposition of Bass and the fundamental theorem of algebraic K -theory. 57 #16277
- Evans, E. Graham, Jr.** Bourbaki's theorem and algebraic K -theory. 53 #13199
- See also **Eisenbud, David**, 45 #6807 and **Eisenbud, David**, 48 #6084
- Garfinkel, Gerald S.** A torsion version of the Chase-Rosenberg exact sequence. 51 #12828
- S Gupta, Surender K.** On 1-cohomology of purely inseparable extensions. 54 #298
- Heinzer, William** See **Eakin, Paul M.**, 47 #8516
- van der Kallen, Wilberd** Le K_2 des nombres duaux. 45 #252
- Kuku, Aderemi O.** Some algebraic K -theoretic applications of the LF and NF functors. 47 #3376
- Laborde, Olivier** Formes quadratiques, algèbres de Clifford et signatures. 50 #13004
- Maazen, Hendrik** (with Stienstra, Jan) A presentation for K_2 of split radical pairs. 57 #12485
- Magid, Andy R.** K -theory of commutative regular rings. 47 #212 (E 55 #12715)
- Erratum to: "K-theory of commutative regular rings" (Proc. Amer. Math. Soc. 39 (1973), 489-492). 55 #12715
- Finite generation of class groups of rings of invariants. 55 #340
- See also **Dennis, R. Keith**, 54 #10238
- McKerrow, A. S.** On the injective dimension of modules of power series. 51 #8098
- Murthy, M. Pavaman** (with Pedrini, Claudio) K_0 and K_1 of polynomial rings. 51 #12829
- Pedrini, Claudio** Sul gruppo di Picard di certe estensioni di anelli di gruppo 1-dimensionali. II. (English summary) 49 #2706
- On the K_0 of certain polynomial extensions. 52 #13804
- On the K_0 of certain polynomial extensions. 51 #8099
- See also **Murthy, M. Pavaman**, 51 #12829
- Sherman, C. C.** The K -theory of an equicharacteristic discrete valuation ring injects into the K -theory of its field of quotients. 58 #647
- Siu, Man Keung** See **Connell, E. H.**, 49 #10682
- Stein, Michael R.** (with Dennis, R. Keith) K_2 of radical ideals and semi-local rings revisited. 53 #10782
- See also **Dennis, R. Keith**, 46 #1775 and **Dennis, R. Keith**, 51 #8097
- Stienstra, Jan** See **Maazen, Hendrik**, 57 #12485
- Wagoner, John B.** Equivalence of algebraic K -theories. 57 #12486
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Secondary classifications:

- Almkvist, Gert** Endomorphisms of finitely generated projective modules over a commutative ring. (54 #12744)
- Bass, Hyman** Some problems in "classical" algebraic K -theory. (53 #13358)
- Bruns, Winfried** Eine Charakterisierung der (R_k, S_{k+1}) -Ringe. (58 #27944)
- Brylawski, Thomas H.** The Tutte-Grothendieck ring. (48 #8343)
- Fröhlich, Albrecht** (with Keating, Michael E.; Wilson, S. M. J.) The class groups of quaternion and dihedral 2-groups. (50 #12979)
- Gebhardt, Hans-Martin** Zur Berechnung des Funktors K_2 von einigen euklidischen Ringen. (57 #12449)
- Geramita, Anthony V.** (with Roberts, Leslie G.) Algebraic vector bundles on projective space. (58 #679)
- Gerstae, Stephen M.** Some exact sequences in the higher K -theory of rings. (50 #7138)
- Isia, John S.** On the Hasse principle for K_0 of quadratic forms over commutative rings. (46 #3538)

- Keating, Michael E.** See **Fröhlich, Albrecht**; et al., (50 #12979)
- Kong, Maynard** Euler classes of inner product modules. (56 #15645)
- Krusmeyer, Mark I.** Fundamental groups, algebraic K -theory, and a problem of Abhyankar. (49 #303)
- Lonsted, Knud** Vector bundles over finite CW-complexes are algebraic. (47 #5862)
- Orecchia, Ferruccio** Sui gruppi di Picard di certe algebre finite non integre. (English summary) (53 #8061)
- Ratliff, Louis J., Jr.** The altitude formula and DVR's. (55 #5616)
- Roberts, Leslie G.** See **Geramita, Anthony V.**, (58 #679)
- Roggenkamp, Klaus W.** Bass-orders and the number of nonisomorphic indecomposable lattices over orders. (47 #5039)
- Salmon, Paolo** Metodi omologici in algebra commutativa. (52 #13802)
- Applicazioni della teoria K all'algebra commutativa. (52 #13813)
- Applicazioni della K -teoria all'algebra commutativa. (50 #7121)
- Metodi omologici in algebra commutativa. (49 #278)
- Seip-Hornix, E. A. M.** The Milnorring of a local ring. (58 #10976)
- Takeuchi, Mitsuhiro** Groups of algebras over $A \otimes \bar{A}$. (58 #22151)
- Tamone, Grazia** Su una condizione di fattorialità debole e l'annullamento del gruppo di Picard. (English summary) (55 #8021)
- Wagoner, John B.** Delooping the continuous K -theory of a valuation ring. (56 #3093)
- Stability for homology of the general linear group of a local ring. (54 #5320)
- Wilson, S. M. J.** See **Fröhlich, Albrecht**; et al., (50 #12979)
- Algebra** See **Articles: Witt rings**, (50 #444)
- Articles:**
- Witt rings ★ (Two articles on Witt rings). (50 #444)
- Witt rings See **Articles: Witt rings**, (50 #444)

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- André, Michel** Homologie des algèbres commutatives. 54 #12748
- Algèbres Tor et anneaux non-noethériens. 50 #13006
- Auslander, Maurice** (with Reiten, Idun) Stable equivalence of dualizing R -varieties. II. Hereditary dualizing R -varieties. 53 #8043
- (with Reiten, Idun) Stable equivalence of dualizing R -varieties. III. Dualizing R -varieties stably equivalent to hereditary dualizing R -varieties. 53 #8044
- (with Reiten, Idun) Stable equivalence of dualizing R -varieties. IV. Higher global dimension. 53 #8045
- (with Reiten, Idun) Stable equivalence of dualizing R -varieties. V. Artin algebras stably equivalent to hereditary algebras. 53 #8046
- Avramov, Luchezar L.** The homology of a tensor product of local rings. (Russian) 50 #13005 (E 53 #8056)
- Corrections to the paper "The homology of a tensor product of local rings" (Izv. Akad. Nauk SSSR Ser. Mat. 39 (1975), 3-14). (Russian) 53 #8056
- Homology of local flat extensions and complete intersection defects. 58 #5638
- Barger, S. Floyd** A theory of grade for commutative rings. 46 #7221
- Bergman, George M.** See **Ogus, Arthur**, 46 #1777
- Bertin, José** Anneaux cohérents de dimension homologique finie. 51 #5579
- Bousfield, A. K.** (with Kan, Daniel M.) The core of a ring. 46 #7222 (E 48 #6085)
- (with Kan, Daniel M.) Correction to "The core of a ring" (J. Pure Appl. Algebra 2 (1972), 73-81). 48 #6085
- Brewer, James W.** (with Rutter, Edgar A., Jr.) Descent for flatness. 45 #8648 (EA 46)
- Brezuleanu, Alexandru** Two formulas of differential calculus in rings. (Romanian. English summary) 54 #12749
- Buchsbaum, David A.** (with Eisenbud, David) On a problem in linear algebra. 49 #2707
- (with Eisenbud, David) Some structure theorems for finite free resolutions. 49 #4995
- Castillon, Jean-Bernard** (with Micali, Artibano) Sur les nombres de Betti d'un anneau local. 50 #7118
- Cha, Hyung Koo** (with Yun, Dall Sun) Sheaves on prime spectrums of quasi B -rings. 51 #8100
- Corsini, Piergiulio** (with Micali, Artibano) Étude de certaines algèbres associatives graduées. 46 #5308
- Cowsik, R. C.** On tensor decomposition of algebras. 57 #9688
- Draper, Richard N.** (with Fischer, Klaus G.) The homology of certain local rings. 54 #5219
- Eisenbud, David** Enriched free resolutions and change of rings. 58 #27947
- See also **Buchsbaum, David A.**, 49 #2707 and **Buchsbaum, David A.**, 49 #4995
- Evans, E. Graham, Jr.** Position générale et position spéciale en la théorie commutative des anneaux. 58 #22042
- Evans, M. W.** On commutative P. P. rings. 47 #3377
- Feigelshtock, Shalom** On the tensor product of exact sequences of modules over a Dedekind ring. 50 #13007 (E 54 #2637)
- Fischer, Klaus G.** See **Draper, Richard N.**, 54 #5219
- Foxby, Hans-Björn** (with Thorup, Anders) Minimal injective resolutions under flat base change. 56 #11984
- Glaz, Sarah** (with Vasconcelos, Wolmer V.) Flat ideals. II. 57 #12487
- Goblot, M.** Exemple d'ouvert non agréable d'un spectre d'anneaux. 50 #9855
- Gotô, Shirô** (with Tachibana, Sadao) A complex associated with a symmetric matrix. 58 #22043
- Gover, Eugene H.** Multiplicative structure of generalized Koszul complexes. 48 #11095
- Gulliksen, Tor Holtedahl** (with Negård, Odd Guttorm) Un complexe résolvant pour certains idéaux déterminantiels. 45 #5124
- Hein, James L.** The convertibility of $\text{Ext}_R^i(-, A)$. 50 #13008
- Heydemann, M. C.** (with Vigué-Poirrier, Micheline) Application de la théorie des polynômes de Hilbert-Samuel à l'étude de certaines algèbres différentielles. 51 #3148
- Hiller, Howard Lyn** Derived functors of torsion. 57 #5997
- Hochster, Melvin** Generically perfect modules are strongly generically perfect. 46 #162
- Cyclic purity versus purity in excellent Noetherian rings. 57 #3111
- Huet, Patrick** Un exemple d'épimorphisme d'anneaux non surjectif. 52 #13807

- Itoh, Shiroh Axiomatic characterizations of grade for commutative rings. **58** #22044
- Jakovlev, A. V. See Sarkisjan, Ju. S., **56** #11985
- Jothilingam, P. A note on M -sequences. **45** #249
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- Józefiak, Tadeusz Tate resolutions for commutative graded algebras over a local ring. **46** #163
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- Kan, Daniel M. See Bousfield, A. K., **46** #7222 (E **48** #6085) and Bousfield, A. K., **48** #6085
- Kirby, David Isomorphic Koszul complexes. **48** #8484
Relations between generalized Koszul complexes. (Italian summary) **53** #8048
A sequence of complexes associated with a matrix. **49** #2708
- Kohn, Peter Ideals generated by three elements. **45** #5125
- Lebelt, Karsten Freie Auflösungen äusserer Potenzen. (English summary) **56** #8549
- Le Bihan, Pierre Sur la cohérence des anneaux de dimension homologique 2. **46** #1776
- Malliavin-Brameret, Marie-Paule Majoration des caractéristiques d'Euler-Poincaré partielles. **54** #12750
- Matlis, Eben The theory of Q -rings. **49** #4996
- Micali, Artibano See Corsini, Piergiulio, **46** #5308 and Castillon, Jean-Bernard, **50** #7118
- Miu, Ion Direct sums in the category of rings. (Romanian. French summary) **48** #2137
- Mott, Joe L. Nonsplitting sequences of value groups. **48** #11096
- Murthy, M. Pavaman Generators for certain ideals in regular rings of dimension three. **47** #817
- Negård, Odd Guttorm See Gulliksen, Tor Høltedahl, **45** #5124
- Northcott, D. G. Homology and specialization. **51** #5580
Generalized Koszul complexes and Artinian modules. **48** #6086 (EA **50**)
- Ogus, Arthur (with Bergman, George M.) Nakayama's lemma for half-exact functors. **46** #1777
- Olivier, Jean Pierre Descente de quelques propriétés élémentaires par morphismes purs. **49** #4997
- Paugam, Michel Condition G_q d'Ischebeck-Auslander et condition S_q de Serre. **53** #399
La condition (G_q) de Ischebeck. **49** #10683
La condition G_q de Ischebeck pour les modules. **49** #10684
Comportement des μ_1 de Bass dans les extensions plates. (English summary) **51** #10324
- Popescu, Nicolae (with Vraciu, Constantin) Sur la structure des anneaux absolument plats commutatifs. **55** #12716
- Reiten, Idun Stable equivalence of dualizing R -varieties. VI. Nakayama dualizing R -varieties. **53** #8047 (E **55** #2991)
See also Auslander, Maurice, **53** #8043; Auslander, Maurice, **53** #8044; Auslander, Maurice, **53** #8045 and Auslander, Maurice, **53** #8046
- Rozenkno, I. Z. Homology of a polynomial ideal. (Russian) **58** #16639
- Rutter, Edgar A., Jr. See Brewer, James W., **45** #8648 (EA **46**)
- Sarkisjan, Ju. S. (with Jakovlev, A. V.) The homological determinacy of Γ -modules. (Russian) **56** #11985
- Schmitt, Heinz Grundtatsachen über lokale Kohomologiemoduln. **57** #16278
- Schoeller, Colette Sur l'homologie de certains anneaux locaux. (English summary) **58** #10867
- Senn, Erhard ★ Modelle und Modellinvarianz in endlichen, gradierten Algebren. **49** #2709
- Sharp, Rodney Y. The Euler characteristic of a finitely generated module of finite injective dimension. **47** #8518
Dualizing complexes for commutative Noetherian rings. **52** #3138
Some results on the vanishing of local cohomology modules. **52** #379
A commutative Noetherian ring which possesses a dualizing complex is acceptable. **56** #11986
- Simis, Aron Residual finiteness of commutative rings and schemes. **48** #6087
- Sjödén, Gunnar A set of generators for $\text{Ext}_R(k, k)$. **54** #10239
- Stöhr, Karl-Otto Funktoren in der Kategorie der lokal kompakten Moduln. **45** #251
- Tachibana, Sadao See Gotô, Shirô, **58** #22043
- Thorup, Anders See Foxby, Hans-Bjørn, **56** #11984
- Vasconcelos, Wolmer V. Simple flat extensions. II. **47** #8519
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- Vigné-Poirrier, Micheline See Heydemann, M. C., **51** #3148
- Vraciu, Constantin See Popescu, Nicolae, **55** #12716
- Yun, Dall Sun See Cha, Hyung Koo, **51** #8100

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- Bégueri, Lucile Foncteurs de ramification d'une extension finie radicielle. (**45** #8660)
- Bkouché, Rudolphe Espaces annelés commutatifs compacts. (**45** #1928)
- Brezuleanu, Alexandru Smoothness and regularity. (**46** #9036)
- Chung, I. Y. Complexes over extension algebras. (**47** #1793)
- Cox, S. H., Jr. The purity of a completion. (**55** #10442)
- Evans, E. Graham, Jr. A generalized principal ideal theorem with applications to intersection theory. (**58** #27953)
- Garfinkel, Gerald S. A module approach to the Chase-Rosenberg-Zelinsky sequences. (**55** #8014)
- Hacque, Michel Localisations et schémas affines. (**45** #8698)
- Hattori, Akira On groups $H^*(S, G)$ and the Brauer group of commutative rings. (**58** #16626)
- Herzog, Jürgen Algebra retracts and Poincaré-series. (**56** #8556)
- Iversen, Birger Amplitude inequalities for complexes. (**58** #27966)
- Kubota, Kazuji Unramified pairs over a pair. (**46** #9045a)
Etale pairs over a pair. (**46** #9045b)
- Lee, Kean On functors text over commutative rings. (**53** #10890)
- Lungulescu, Bogdan The theory of connections on graded differential algebras and

- characteristic classes. I. (Romanian. English summary) (**55** #10462)
- Menini, Claudia On E -compact modules over SISI rings. (Italian summary) (**58** #22054)
- Micali, Artibano (with Théron, Jean-Daniel) Sur les groupes $A(n)$. (**58** #11078)
- Roggenkamp, Klaus W. Almost split sequences for group rings. (**58** #10989)
- Schelter, William Products of torsion theories. (**45** #8690)
- Šestakova, G. P. Modules over rings with a power basis. (Russian) (**58** #10870)
- Strooker, Jan R. The fundamental group of the general linear group. (**58** #16844)
- Théron, Jean-Daniel See Micali, Artibano, (**58** #11078)
- Zelinsky, Daniel Long exact sequences and the Brauer group. (**55** #5608)

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- Alameh, S. On commutativity of endomorphism rings of ideals. **47** #213
- Bass, Hyman Descending chains and the Krull ordinal of commutative Noetherian rings. **46** #1778
- Brewer, James W. (with Rutter, Edgar A., Jr.) Must R be Noetherian if R^G is Noetherian. **56** #2991
- Budach, Lothar Über den Verband aller Lineartopologien eines Noetherschen Ringes. **53** #5568
(with Fitzner, Heinz-Jörg) Abschließungsoperatoren für Lineartopologien Noetherscher Ringe. **52** #380
- Burch, A. Lindsay On a class of commutative Noetherian rings. **47** #214
- Bürosch, Gustav Über die Erhöhung der Kodimension eines lokalen Ringes bei monoidalen Abbildungen. **48** #3949
- Camillo, Victor P. Commutative rings whose quotients are Goldie. **52** #381
- Chadeyras, Marcel Essai d'une théorie noethérienne homogène pour les anneaux commutatifs dont la graduation est aussi générale que possible. **45** #6803
- Eisenreich, Günther Perfekte Ideale und Vektormoduln über noetherschen Ringen. **46** #1779
- Fitzner, Heinz-Jörg See Budach, Lothar, **52** #380
- Formanek, Edward Faithful Noetherian modules. **52** #382
- Fujita, Kazumori (with Itoh, Shiroh) Some remarks on the global transforms of Noetherian rings. **55** #2874
- Gilmer, Robert A theorem on Noetherian rings. **47** #1797
- Gotô, Shirô A problem on Noetherian local rings of characteristic p . **56** #5527
- Hall, Janet E. (with Sharp, Rodney Y.) Dualizing complexes and flat homomorphisms of commutative Noetherian rings. **58** #648
- Heinzer, William (with Ohm, Jack) On the Noetherian-like rings of E. G. Evans. **45** #3385
- Heitmann, Raymond C. Prime ideal posets in Noetherian rings. **56** #2992
- Hochster, Melvin Properties of Noetherian rings stable under general grade reduction. **48** #8485
Non-openness of loci in Noetherian rings. **47** #215
- Houston, Evan G., Jr. (with McAdam, Stephen J.) Rank in Noetherian rings. **54** #26
- Ischebeck, Friedrich Gewisse additive Funktionen auf Modulkategorien. **46** #164
- Itoh, Shiroh See Fujita, Kazumori, **55** #2874
- Kumar, Ravinder (with Manaktala, Kanchan) A note on a class of Noetherian rings. **53** #400
- Kunz, Ernst On Noetherian rings of characteristic p . **55** #5612
- Manaktala, Kanchan See Kumar, Ravinder, **53** #400
- Matijević, Jacob R. (with Roberts, Paul) A conjecture of Nagata on graded Cohen-Macaulay rings. **49** #4998
Maximal ideal transforms of Noetherian rings. **52** #8112
- McAdam, Stephen J. See Houston, Evan G., Jr., **54** #2641
- McDowell, Kenneth P. Pseudo-Noetherian rings. **54** #2642
- Millevoi, Tomaso Sulle localizzazioni che conservano il grado. (English summary) **49** #279
- Nakkas, H. M. Locally Noetherian multiplicative lattices. (Russian) **52** #383
- Ohm, Jack See Heinzer, William, **45** #3385
- Quentel, Yann Sur l'uniforme cohérence des anneaux noethériens. **47** #1798
- Querré, Julien Sur les anneaux réflexifs. **50** #2154
Intersections d'anneaux intègres. (English summary) **54** #12751
Intersections d'anneaux intègres. **55** #341
- Ramras, Mark Constructing new R -sequences. **56** #343
- Ratliff, Louis J., Jr. Hilbert rings and the chain condition for prime ideals. **54** #299
- Ribenboim, Paulo Anneaux méta-noethériens. **53** #5569
Meta-Noetherian rings. (Italian and French summaries) **55** #12717
- Roberts, Paul See Matijević, Jacob R., **49** #4998
- Rutter, Edgar A., Jr. See Brewer, James W., **56** #2991
- Sargies, Heidrun Ein Beweis des Hilbertschen Basissatzes. **53** #13200
- Sharp, Rodney Y. Cousin complex characterizations of two classes of commutative Noetherian rings. **45** #3392
On the fibre rings of a formal power series extension. **57** #9689
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- Valla, Giuseppe Certain graded algebras are always Cohen-Macaulay. **54** #10240
- Wiegand, Roger The maximal ideal space of a Noetherian ring. **52** #13808
Prime ideal structure in Noetherian rings. **55** #8019
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- Wiegand, Sylvia The maximal ideal space of a Noetherian ring. II. **52** #13809
(with Wiegand, Roger) The maximal ideal space of a Noetherian ring. **53** #13201
- Zink, Thomas Endlichkeitsbedingungen für Moduln über einem Noetherschen Ring. **51** #478

Secondary classifications:

- Akiba, Tomoharu (with Nagata, Masayoshi) On normality of a Noetherian ring. (**58** #631)

- Anderson, D. D.** Distributive Noether lattices. (51 #12631)
- Amendazir, Efraim P.** Rings with an almost Noetherian ring of fractions. (57 #305)
- Armstrong, Markus** A particular class of regular domains. (58 #22050)
- Aviss, Edward D.** (with Geramita, Anthony V.) Efficient generation of maximal ideals in polynomial rings. (57 #12490)
- Geramita, Anthony V.** See **Davis, Edward D.**, (57 #12490)
- Heinzer, William** (with Ohm, Jack) Noetherian intersections of integral domains. (45 #5156)
- Johnson, Johnny A.** A note on local Noether lattices. (48 #3819)
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- Fossum, Robert M. (with Griffith, Phillip A.) A complete local factorial ring of dimension 4 which is not Cohen-Macaulay. **(50 #9858)**
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- Heinzer, William See Gilmer, Robert, **(58 #22047)**
- Houston, Evan G., Jr. Chains of primes in $R(x)$. **(58 #5642)**
- Hule, Harald (with Sidki, Saïd N.) Full ideals over the ring of integers. (Portuguese) **(54 #301)**
- Israel, Giorgio (with Mendolia, Antonia) Sull'ordine di un modulo finitamente generato e graduato su un anello di polinomi. (English summary) **(58 #22048)**
- Itsuki, Yoshio A remark on polynomial rings in infinitely many variables over a field. (Japanese) **(58 #22049)**
- Izverceanu, P. N. Intrinsic functions on polynomial algebras. (Romanian. Russian and German summaries) **(49 #10687)**
- Jagžev, A. V. The generators of the group of tame automorphisms of an algebra of polynomials. (Russian) **(55 #10445)**
- James, G. D. A note on the T -ideal generated by $s_3[x_1, x_2, x_3]$. **(58 #10869)**
- Knus, Max-Albert (with Ojanguren, Manuel) Modules and quadratic forms over polynomial algebras. **(58 #16641)**
- Kobayashi, Yuji The Hilbert series of some graded algebras and the Poincaré series of some local rings. **(58 #5643)**
- Kopeiko, V. I. Quadratic spaces and quaternion algebras. (Russian) **(58 #16642)**
- See also Suslin, A. A., **(57 #9694)**
- Kummer, Renate (with Renschuch, Bodo) Potenzproduktideale. II. **(47 #8524)**
- Lam, Tsit Yuen ★ Serre's conjecture. **(58 #5644)**
- Lantz, David C. R -automorphisms of $R[G]$ for G abelian torsion-free. **(55 #8022)**
- Lazard, Daniel Algèbre linéaire sur les anneaux de polynômes. **(52 #5655)**
- Équations linéaires dans les anneaux de polynômes. **(58 #5645)**
- Levasseur, Thierry Algèbres localement polynomiales. **(58 #5646)**
- Mallows, Colin L. (with Sloane, Neil J. A.) On the invariants of a linear group of order 336. **(48 #3954)**
- McAdam, Stephen J. (with Ratliff, Louis J., Jr.) Polynomial rings and H_i -local rings. II. **(57 #16281)**
- (with Rush, David E.) Schreier rings. **(57 #16282)**
- McQuillan, Donald L. On the coefficients and values of polynomial rings. **(57 #6002)**
- See also Gunji, Hiroshi, **(57 #12491)**
- Mendolia, Antonia See Israel, Giorgio, **(58 #22048)**
- Mott, Joe L. See Costa, Douglas L.; et al., **(58 #22046)**
- Nagata, Masayoshi Subrings of a polynomial ring of one variable. **(57 #9693)**
- Nöbauer, Wilfried Einige ungelöste Probleme bei Polynomringen. **(51 #12835)**
- Ojanguren, Manuel See Knus, Max-Albert, **(58 #16641)**
- Parimala, S. Failure of a quadratic analogue of Serre's conjecture. **(54 #7448)**
- Poladina, F. M. The basis of certain modules. (Russian. Armenian summary) **(58 #27950)**
- (Quillen, Daniel) See Ferrand, Daniel, **(56 #2996)**
- Ratliff, Louis J., Jr. See McAdam, Stephen J., **(57 #16281)**
- Renschuch, Bodo Beiträge zur konstruktiven Theorie der Polynomideale. I. Zur Bestimmung der Basis eines H -Ideals bei vorgegebener allgemeiner Nullstelle. (Russian and English summaries) **(49 #10688a)**
- Beiträge zur konstruktiven Theorie der Polynomideale. II. Zur Bestimmung des zweiten Syzygienmoduls mit Hilfe des Gausschen Eliminierungsverfahrens. (Russian and English summaries) **(49 #10688b)**
- Beiträge zur konstruktiven Theorie der Polynomideale. III. Über eine Klasse imperfekter Primideale. (Russian and English summaries) **(49 #10688c)**
- See also Kummer, Renate, **(47 #8524)**
- Rush, David E. See McAdam, Stephen J., **(57 #16282)**
- Seidenberg, Abraham The prime ideals of a polynomial ideal under extension of the base field. **(50 #13012)**
- (Serre, Jean-Pierre) See Lam, Tsit Yuen, **(58 #5644)**
- Šestakova, G. P. Modules over rings with a power basis. (Russian) **(58 #10870)**
- Sidki, Saïd N. See Hule, Harald, **(54 #301)**
- Silver, James See Eakin, Paul M., **(46 #9028)**
- Sloane, Neil J. A. See Mallows, Colin L., **(48 #3954)**
- Storch, Uwe Bemerkung zu einem Satz von M. Kneser. **(48 #286)**
- Stückrad, Jürgen (with Vogel, Wolfgang) Über die h_1 -Bedingung in der idealtheoretischen Multiplizitätstheorie. **(45 #8650)**
- Suslin, A. A. Locally polynomial rings and symmetric algebras. (Russian) **(56 #2997)**
- (with Kopeiko, V. I.) Quadratic modules and the orthogonal group over polynomial rings. (Russian) **(57 #9694)**
- See also Ferrand, Daniel, **(56 #2996)**
- Suvak, John A. Full ideals and ring groups in $Z_n[x]$. **(57 #3112)**
- Tang, Hwa Tsang Gauss' lemma. **(46 #1782)**
- Toti Rigatelli, Laura Una sottoclasse della classe degli anelli noetheriani, "analoga" alla classe degli euclidei. (English summary) **(46 #1783)**
- Valla, Giuseppe Sui polinomi generanti un ideale massimale principale. **(52 #10717)**
- Vasconcelos, Wolmer V. Coherence of one polynomial ring. **(48 #3955)**
- See also Greenberg, Brian, **(54 #5223)**
- Vogel, Wolfgang See Stückrad, Jürgen, **(45 #8650)**
- Wright, David Lee See Bass, Hyman; et al., **(55 #5613)**
- Zafrullah, Muhammad See Costa, Douglas L.; et al., **(58 #22046)**

Secondary classifications:

- Aizenberg, N. N. (with Semion, I. V.; Citkin, A. I.) Polynomial representations of logical functions. (Russian) **(46 #10498)**
- Anderson, David F. Subrings of $k[X, Y]$ generated by monomials. **(57 #3121)**
- Projective modules over subrings of $k[X, Y]$. **(58 #5629)**
- Artamonov, V. A. Orbits of the group $GL(r, k[X_1, \dots, X_n])$. (Russian) **(50 #4679)**
- Brizolis, Demetrios Hilbert rings of integral-valued polynomials. **(52 #10697)**
- Camillo, Victor P. Semihereditary polynomial rings. **(50 #4652)**
- Citkin, A. I. See Aizenberg, N. N.; et al., **(46 #10498)**
- Ellingsrud, Geir (with Skjelbred, Tor) Profondeur d'anneaux d'invariants en caractéristique p . (English summary) **(57 #12483)**

- Franci, Raffaella (with Toti Rigatelli, L.) Sistemi normali di generatori per gli ideali di $\mathbb{Z}[x]$. (57 #263)
- Gröbner, Wolfgang Teoria degli ideali e geometria algebrica. (German summary) (46 #9037)
- Gudović, I. S. A test for a system of vectors in a certain module to form a basis. (Russian) (58 #5626)
- Györy, Kálmán Sur l'irréductibilité d'une classe des polynômes. I. (47 #3344)
- Kovács, Amos On the nonexistence of hypercommuting polynomials. (56 #12056)
- Lausch, Hans (with Nöbauer, Wilfried) ★Algebra of polynomials. (50 #2037)
- Maroscia, Paolo Modules projectifs sur certains anneaux de polynômes. (English summary) (56 #15629)
- Miyashita, Yôichi Note on an ideal of a positively filtered ring over a commutative ring. (55 #5610)
- Nöbauer, Wilfried Zur Theorie der Polynomringe. (English summary) (52 #3209)
See also Lausch, Hans, (50 #2037)
- Querré, Julien Sur le groupe des classes de diviseurs. (English summary) (56 #2987)
- Schweizer, Urs Fortsetzung von Spezialisierungen: ein idealtheoretischer Zugang. (51 #3166)
- Semion, I. V. See Aizenberg, N. N.; et al., (46 #10498)
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- Stanley, Richard P. Cohen-Macaulay complexes. (58 #28010)
- Suslin, A. A. Projective modules over polynomial rings are free. (Russian) (57 #9685)
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- Zaks, Abraham Dedekind k -subalgebras of $k(x)$. (55 #12718)

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- Albis González, Víctor S. Ordered structures. III. (Spanish) (50 #13013)
- Camillo, Victor P. A note on semi-hereditary rings. (47 #6684)
- Clark, John On the associativity of the torsion functor. (49 #5003)
- Fine, Benjamin Sum of squares rings. (55 #8023)
- Kleiner, G. B. Krull OP-rings are Plücker rings. (Russian) (51 #5585)
- Miyashita, Yôichi Commutative Frobenius algebras generated by a single element. (45 #5127)
- Mott, Joe L. The group of divisibility of Rees rings. (52 #10718)
- Pham-Pierrejean, Marie-Lise Une relation d'ordre sur les anneaux absolument plats. (English summary) (57 #16283)
- Picavet, Gabriel Caractérisation de certains types d'anneaux Euclidiens. (48 #6091)
- Shimizuike, Yuzi Modules which have no co-irreducible submodules. (47 #6685)
- Singh, Surjeet Principal ideals and multiplication rings. II. (47 #1800)
- Spulber, Dorian Observations sur les systèmes localisants réguliers et leur liaison avec la transformée Nagata d'un idéal. (53 #13202)

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- Beckenstein, Edward See Suffel, Charles L.; et al., (58 #18337)
- Hochster, Melvin The Zariski-Lipman conjecture for homogeneous complete intersections. (50 #13033)
- Lenstra, Hendrik W., Jr. Euclid's algorithm in cyclotomic fields. (52 #8100)
- Levitz, Kathleen B. (with Mott, Joe L.) Rings with finite norm property. (45 #6872)
- Mollov, Todor Ž. Quasi-essential subgroups and centers of purity in groups of normed units of modular group rings of primary abelian groups. (Bulgarian. Russian and English summaries) (58 #5870)
- Mott, Joe L. See Levitz, Kathleen B., (45 #6872)
- Narici, Lawrence See Suffel, Charles L.; et al., (58 #18337)
- Ramras, Mark Constructing new R -sequences. (56 #343)
- Stanton, Robert O. Relative S -invariants. (56 #5521)
- Suffel, Charles L. (with Beckenstein, Edward; Narici, Lawrence) Lattice theory and Jacobson rings. (Italian summary) (58 #18337)
- Van der Poorten, Alfred J. A note on recurrence sequences. (52 #14740)

13G05 Integral domains

- Adams, Helen E. Factorization-prime ideals in integral domains. (55 #10446)
- Anderson, Daniel (with Matijevic, Jacob R.; Nichols, Warren D.) The Krull intersection theorem. II. (55 #8024)
 π -domains, overrings, and divisorial ideals. (58 #5647)
- Arnold, Jimmy T. (with Sheldon, Philip B.) Integral domains that satisfy Gauss's lemma. (51 #8104)
(with Gilmer, Robert) Two questions concerning dimension sequences. (57 #6003)
- Bastida, Eduardo R. (with Gilmer, Robert) Overrings and divisorial ideals of rings of the form $D + M$. (48 #2138)
- Beauregard, Raymond A. (with Dobbs, David E.) On a class of Archimedean integral domains. (53 #10786)
- Bertin, Jean-Étienne Sur les Q -anneaux de Matlis. (58 #5648)
- Bouvier, Alain Sur les idéaux premiers de hauteur 1 d'un anneau de Krull. (English summary) (55 #5615)
- Brandal, Willy Almost maximal integral domains and finitely generated modules. (48 #3956)
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- Brewer, James W. Integral domains of finite character. II. (45 #1903)
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- Brodmann, Markus A particular class of regular domains. (58 #22050)
- Chacron, Joseph Treillis des idempotents centraux d'un anneau. (58 #10871)

- Cheatham, Thomas J. (with Enochs, Edgar) The epimorphic images of a Dedekind domain. (46 #1784)
- Cristante, Valentino I domini d'integrità con il reticolo dei sottoanelli distributivi. (47 #1801)
- David, John E. On a retract of an integral domain. (54 #10242)
- Dobbs, David E. On going down for simple overrings. II. (51 #480)
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- Enochs, Edgar See Cheatham, Thomas J., (46 #1784)
- Fontana, Marco (with Maroscia, Paolo) Sur les anneaux de Goldman. (English summary) (57 #3113)
- Fujita, Kazunori A note on $G(n)$ -domains and Hilbert rings. (51 #3154)
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- Gilmer, Robert Domains with integrally closed subrings. (46 #1785)
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- Gotô, Shiro The divisor class group of a certain Krull domain. (55 #8025)
- Grams, Anne P. Atomic rings and the ascending chain condition for principal ideals. (49 #5004)
(with Warner, Hoyt D.) Irreducible divisors in domains of finite character. (51 #12836)
See also Gilmer, Robert, (46 #7224)
- Gunji, Hiroshi (with McQuillan, Donald L.) On rings with a certain divisibility property. (53 #405)
- Hedstrom, John R. G -domains and property (T). (48 #6092)
- Heinzer, William (with Ohm, Jack) Defining families for integral domains of real finite character. (46 #9031)
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- Hill, Paul On the complete integral closure of a domain. (46 #7225)
- Hoffmann, Joseph F. See Gilmer, Robert, (54 #302)
- Houston, Evan G., Jr. (with McAdam, Stephen J.) Chains of primes in Noetherian rings. (50 #13014)
- Huckaba, James A. See Gilmer, Robert, (46 #9030)
- Jacobson, David Linear GCD equations. (51 #10327)
- Jensen, Christian U. On $\text{Ext}_R^1(A, R)$ for torsion-free A . (47 #219)
- Leedham-Green, C. R. The class group of Dedekind domains. (45 #1888)
- Maggioni, Renato (with Ragusa, Alfio) Sulla permanenza degli anelli di Krull e completamente integralmente chiusi rispetto a certi tipi di omomorfismi. (English summary) (56 #5530)
- Maroscia, Paolo See Fontana, Marco, (57 #3113)
- Marot, Jean Une propriété des anneaux universellement japonais. (56 #5531)
- Matijevic, Jacob R. See Anderson, Daniel; et al., (55 #8024)
- Matlis, Eben Rings of type I. (46 #5312)
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- McAdam, Stephen J. Going down. (47 #220)
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- McQuillan, Donald L. See Gunji, Hiroshi, (53 #405)
- Mott, Joe L. The group of divisibility and its applications. (49 #2712)
- Nagasawa, Ryoichi Some remarks on one-dimensional local domains. (56 #346)
- Nichols, Warren D. See Anderson, Daniel; et al., (55 #8024)
- Nishimura, Jun-ichi Note on Krull domains. (52 #5656)
- Nishimura, Toshio On V -ideals of generalized transforms of an integral domain. (46 #3507)
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- Ohm, Jack See Heinzer, William, (46 #9031 and Heinzer, William, (48 #6093)
- Pacholke, Kenneth Integral domains which have finite character locally. (51 #10328)
- Papick, Ira J. Topologically defined classes of going-down domains. (52 #386)
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- Pedrin, Claudio Sulla normalità e il gruppo di Picard di certi anelli. (46 #3508)
- Pirtle, Elbert M., Jr. A note on almost-Dedekind domains. (46 #3509)
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A generalization of the class group. (50 #310)
- Propes, R. E. Radicals of PID's and Dedekind domains. (45 #5119)
- Querré, Julien Sur une propriété des anneaux de Krull. (45 #8644)
- Ragusa, Alfio See Maggioni, Renato, (56 #5530)
- Raillard, Nicole Sur les anneaux de Mori. (English summary) (52 #387)
- Ramaswamy, Revati (with Viswanathan, T. M.) Overring properties of G -domains. (53 #10788)
- Ratliff, Louis J., Jr. Catenary rings and the altitude formula. (47 #221)
Chain conjectures and H -domains. (49 #2714)
Three theorems on imbedded prime divisors of principal ideals. (49 #2713)
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- Reutenauer, Christophe Une caractérisation des anneaux de Fatou faibles. (English

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- gers, Kenneth The axioms for Euclidean domains. **46** #1786
- ntier, Edgar A., Jr. See Brewer, James W., **53** #5571
- nkark, P. B. K. On the injective envelope of a torsion-free module over an integral domain. **56** #8552
- arp, Rodney Y. The Cousin complex and integral extensions of Noetherian domains. **47** #222
- eldon, Philip B. See Arnold, Jimmy T., **51** #8104
- inagawa, Mitsuo On flat extensions of Krull domains. **53** #8054
- ng, Surjeet (KE)-domains. **48** #11098
- ha, I. (with Srivastava, J. B.) Ideals in commutative domains. **45** #6798
- ivastava, J. B. See Sinha, I., **45** #6798
- eger, R. B. Rings with a free semigroup of invertible ideals. (Russian) **46** #9032
- ughan, Nick H. Relations between classes of ideals in a domain. III. **55** #10447
- swanathan, T. M. See Ramaswamy, Revati, **53** #10788
- adsworth, Adrian R. Pairs of domains where all intermediate domains are Noetherian. **50** #2158
- alton, R. A. Quotient semigroups of integral domains. **50** #4572
- arner, Hoyt D. See Grams, Anne P., **51** #12836
- arner, Seth Openly embedding local noetherian domains. **45** #6799
- iegand, Sylvia Semilocal domains whose finitely generated modules are direct sums of cyclics. **51** #5587
- shida, Ken-ichi On flat over-rings of a Krull domain. **52** #13814
- frullah, Muhammad On finite conductor domains. **58** #5649

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- ndt, Rolf (with Schramm, Klaus) Arithmetisch ganze Differentiale der Modulfunktionenkörper 6. und 7. Stufe. (58 #27770)
- isen, Monte B., Jr. (with Sheldon, Philip B.) CPI-extensions: overrings of integral domains with special prime spectra. (56 #5520)
- esinsky, H. (with Fuller, M. J.) Minimal bases of polynomial ideals. (57 #5983)
- rosch, Gustav Über die Beziehungen zwischen den Primidealen Noetherscher Integritätsbereiche mit gleichem Quotientenkörper. II. (48 #3940)
- obbs, David E. On the weak global dimension of pseudo-valuation domains. (58 #5634)
- errest, William K. Model theory for universal classes with the amalgamation property: a study in the foundations of model theory and algebra. (58 #202)
- ied, Ervin Automorphism group of integral domains fixing a given subring. (56 #2985)
- ller, M. J. See Bresinsky, H., (57 #5983)
- lovich, Steven A characterization of the integers among Euclidean domains. (58 #5639)
- az, Sarah (with Vasconcelos, Wolmer V.) Flat ideals. II. (57 #12487)
- edstrom, John R. (with Houston, Evan G., Jr.) Pseudo-valuation domains. II. (58 #5615b)
- (with Houston, Evan G., Jr.) Pseudo-valuation domains. (58 #5615a)
- ouston, Evan G., Jr. See Hedstrom, John R., (58 #5615a) and Hedstrom, John R., (58 #5615b)
- cCabe, John A note on Zariski's lemma. (54 #2628)
- ayanishi, Masayoshi An algebraic characterization of the affine plane. (54 #7481)
- letti, Francesco Sulla proprietà di estensione. (52 #10732)
- ntiliff, Louis J., Jr. H -semilocal domains and altitude $R[c/b]$. (56 #342)
- Notes on local integral extension domains. (57 #5990)
- nault, Guy Sur des conditions de chaînes ascendantes dans des modules libres. (57 #5998)
- hramm, Klaus See Berndt, Rolf, (58 #27770)
- yd, Hamet Un critère jacobien en caractéristique zéro. (52 #5665)
- eldon, Philip B. See Boisen, Monte B., Jr., (56 #5520)
- rouchakis, Nicolas Chr. Anneaux ultramétriques valués. (58 #16625)
- vasconcelos, Wolmer V. See Glaz, Sarah, (57 #12487)
- alton, R. A. A criterion for Prüfer rings. (57 #217)
- com, K. L. Unique factorization theorems for subalgebras of the incidence algebra. (46 #7099)

13Hxx Local rings and semilocal rings

13H05 Regular local rings

- ayama, Yôichi A remark on almost complete intersections. **58** #10872
- aki, Atsushi See Furuya, Mamoru, **46** #7226
- ndt, Rolf Zur Kennzeichnung minimaler Modelle mit Hilfe der Differente eines Differentials. **51** #481
- Über Differentialintegritäten endlich erzeugbarer Körper. **51** #482
- odmann, Markus Über die minimale Dimension der assoziierten Primideale der Kompletion eines lokalen Integritätsbereiches. **51** #10329
- uchsbaum, David A. Complexes and ideals' resolutions. **53** #5573
- urth, A. On powers of ideals generated by R -sequences in a Noetherian local ring. **48** #2139
- uruya, Mamoru (with Araki, Atsushi) Remarks on the characterization of simple spots over regular rings. **46** #7226
- iffith, Phillip A. A representation theorem for complete local rings. **54** #303
- assan, Ali Hussain On the completion of a Noetherian ring in the natural topology. **56** #2998
- annah, M. I. Reflexive modules over regular local rings. **51** #12837
- n der Kallen, Wilberd The K_2 's of a 2-dimensional regular local ring and its quotient field. **54** #5224
- allavin-Brameret, Marie-Paule Une remarque sur les anneaux locaux réguliers. **53** #406

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- Matsumura, Hideyuki Formal power series rings over polynomial rings. I. **51** #3155
- Nomura, Masayuki Formal power series rings over polynomial rings. II. **51** #3156
- Poletti, Mario Anelli p -adici e loro rappresentazioni. **45** #1902
- Quentel, Yann Sur le théorème d'Auslander-Buchsbaum. **46** #165
- Radu, Nicolae Sur l'ensemble des idéaux premiers formellement lisses. (Italian summary) **52** #3148
- Sally, Judith D. Regular overrings of regular local rings. **46** #9033 (E **52** #3143)
- Erratum to: "Regular overrings of regular local rings" (Trans. Amer. Math. Soc. **171** (1972), 291-300). **52** #3143 (EA 53)
- Seydl, Hamet Un critère jacobien des points simples. **47** #4995
- Sur le critère jacobien de Nagata. **47** #3382
- Shannon, David L. Monoidal transforms of regular local rings. **48** #8492
- Shnabel, Paul A. The theory of higher order M -adic differentials. **49** #282
- Valabrega, Paolo On two-dimensional regular local rings and a lifting problem. **51** #483
- Regular local rings and excellent rings. I, II. **48** #287
- Watanabe, Junzo A note on Gorenstein rings of embedding codimension three. **47** #8526

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- Bennett, Bruce On the structure of non-excellent curve singularities in characteristic p . (47 #6693)
- Brezuleanu, Alexandru (with Radu, Nicolae) Geometric regularity and formal smoothness. (Italian summary) (48 #6105)
- (with Radu, Nicolae) On the localization of formal smoothness. (52 #8122)
- van den Dries, L. Artin-Schreier theory for commutative regular rings. (58 #16264)
- Faltings, Gerd Ein einfacher Beweis, dass geometrische Regularität formale Glattheit impliziert. (58 #662)
- Grauert, Hans (with Remmert, Reinhold) ★ Analytische Stellenalgebren. (47 #5290)
- Hinik, V. A. Gorenstein modules of the ring of invariants. (Russian) (58 #22090)
- Hochster, Melvin Contracted ideals from integral extensions of regular rings. (50 #2149)
- Ishibashi, Yasunori A characterization of one dimensional regular local rings in terms of high order derivations. (50 #13000)
- Kitchen, Andrew T. Watts cohomology and separability. (47 #3491)
- Langmann, Klaus Japanische und ausgezeichnete lokale Ringe. (57 #16301)
- Marinari, Maria Grazia Examples of bad Noetherian local rings. (58 #5666)
- Massaza, Carla Sopra alcune condizioni jacobiane in un anello locale regolare e nellesue estensioni étale. (English summary) (55 #8029)
- Su alcune caratterizzazioni di un criterio jacobiano di semplicità in termini di derivazioni e differenziali. (English summary) (55 #8030)
- Pfister, Gerhard On the property of approximation of two-dimensional local rings. (58 #5673)
- Radu, Nicolae See Brezuleanu, Alexandru, (48 #6105) and Brezuleanu, Alexandru, (52 #8122)
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- Stückrad, Jürgen** Grothendieck-Gruppen abelscher Kategorien und Multiplizitäten. (50 #7149)
- Świącicka, J.** See **Boratynski, Maksymilian**, (55 #5617)
- Szpiro, Lucien** See **Peskine, Christian**, (50 #2152)

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- Alfonsi, Bernard Un contre-exemple à une conjecture de J. Ohm et D. E. Rush. 46 #7228
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Kanzaki, Teruo (with Kitamura, Kazuo) On odd type Galois extension with involutions of semi-local rings. (51 #8091)
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Remarks on the paper: "Equivalent topological properties of the space of signatures of a semilocal ring" (Publ. Math. Debrecen 23 (1976), no. 3-4, 283-289)
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Massaza, Carla (with Valabrega, Paolo) Sull'apertura di luoghi in uno schema localmente noetheriano. (English summary) (58 #663)
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Radu, Nicolae Sur la lissité d'une classe d'algèbres. (53 #5584)
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Robbiano, Lorenzo (with Valla, Giuseppe) On normal flatness and normal torsion-freeness. (55 #349)
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Stückrad, Jürgen (with Vogel, Wolfgang) Über das Amsterdamer Programm von Gröbner und Buchsbaum Varietäten. (58 #16707)
Suzuki, Satoshi (with Nishimura, Jun-ichi) Higher differential algebras of discrete valuation rings. (51 #462)
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13Jxx Topological rings [For ordered rings, see 06A70; see also 16A80.]

13J05 Power series rings

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- ndrup, Søren (with Small, Lance W.) Power series over coherent rings. **50** #13018
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- Bazzoni, Silvana Dualità sul completamento naturale di un anello noetheriano. **58** #653
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- Johnson, Johnny A. Completeness in semi-local ideal lattices. (Loose Russian summary) **56** #11991
- Menini, Claudia Topologie di caratteri per moduli su anelli Noetheriani. (English summary) **58** #5657
- Molinelli, Silvia Sulla noetherianità e la piatezza nel passaggio ai completamenti. **52** #13824
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Alcune proprietà di piatezza di un anello completo relative ad un sottoanello. **52** #13825
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- Stephenson, W. See Raphaël, Robert, (57 #6085)
- Tate, J. Rigid analytic spaces. (Russian) (46 #5324)
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Rivet, R. Fonctions pseudo-concaves et anneaux henséliens. 51 #5589

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★Algebraic spaces. (53 #10795)

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Solid k -varieties and Henselian fields. (47 #6707a)

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Engel, Antonio José Fields with two incomparable Henselian valuation rings.

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Grauert, Hans (with Remmert, Reinhold) ★Analytische Stellenalgebren. (47 #5290)

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Jančevskii, V. I. Division algebras over Henselian discretely valued fields. (Russian) (55 #5685)

Knutson, Donald ★Algebraic spaces. (46 #1791)

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Mazan, Michel Espaces de suites sur un anneau topologique. (58 #23488)

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- Press, Andreas W. M. A note on Witt rings. (49 #5051)
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- Elman, Richard (with Lam, Tsit Yuen) On the quaternion symbol homomorphism $g_F: k_2 F \rightarrow B(F)$. (52 #272)
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- Johnstone, Peter T. Rings, fields, and spectra. (56 #8335)
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- Renschuch, Bodo ★Elementare und praktische Idealtheorie. (56 #2981)
- Thomas, Alan D. ★Zeta-functions: an introduction to algebraic geometry. (56 #365)

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- Abhyankar, Shreeram Shankar Historical ramblings in algebraic geometry and related algebra. 53 #5581
- See also Zariski, O., 57 #9695
- Dolgačev, I. V. Abstract algebraic geometry. (Russian) 55 #12721
- (with Iskovskih, V. A.) Geometry of algebraic varieties. (Russian) 54 #305
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- Gudkov, D. A. The topology of real projective algebraic varieties. (Russian) 53 #2936
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Grothendieck, A. Travaux de Heisoukē Hironaka sur la résolution des singularités. (54 #2386)

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(Mumford, David) See Tate, J., (54 #2393); Zariski, O., (58 #21346a) and Zariski, O., (58 #21346b)

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★Collected papers. Vol. II: Holomorphic functions and linear systems. (58 #21346b)

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14-04 Explicit machine computation and programs (not the theory of computation or programming)

Stefek, Manfred Berechnung der Singularitäten und Extrema einer speziellen Klasse von algebraischen Kurven. 55 #2881

Secondary classifications:

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Algebraic Groups ★Семинар по алгебраическим группам. (Russian) [Seminar on algebraic groups] 48 #11106

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- ★Théorie des topos et cohomologie étale des schémas. Tome 2. 50 #7131
- ★Théorie des topos et cohomologie étale des schémas. Tome 3. 50 #7132
- Theory of schemes ★Teoría de esquemas. (Spanish) [Theory of schemes] 50 #316
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- Birch, B. J. See Modular functions of one variable, (51 #12708)
- Borevič, Z. I. See Modules in representation theory and algebraic geometry, (54 #10339)
- Douady, Adrien See Différents aspects de la positivité, (50 #2541)
- Geramita, Anthony V. See Conference: Commutative Algebra—, (52 #5642)
- Horváth, John See Several complex variables, (45 #585)
- Karacuba, A. A. See Proceedings: International Conference on Number Theory, (48 #213)
- Keldyš, M. V. See Proceedings: International Conference on Number Theory, (48 #213)
- Krugljakov, L. Z. See Geometry collection, (49 #9749)
- Kuyk, Willem See Modular functions of one variable, (51 #12708)
- Lawvere, F. William See Toposes, algebraic geometry and logic, (48 #8592)
- Oskolkov, K. I. See Proceedings: International Conference on Number Theory, (48 #213)
- (Parsin, A. N.) See Proceedings: International Conference on Number Theory, (48 #213)
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- (Skopin, A. I.) See Modules in representation theory and algebraic geometry, (54 #10339)
- (Verdier, Jean-Louis) See Différents aspects de la positivité, (50 #2541)
- (Vinogradov, I. M.) See Proceedings: International Conference on Number Theory, (48 #213)
- Algebraic geometry See Toposes, algebraic geometry and logic, (48 #8592) and Modules in representation theory and algebraic geometry, (54 #10339)
- Analytic geometry See Différents aspects de la positivité, (50 #2541)
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- Conference:
- Commutative Algebra ★Conference on Commutative Algebra—1975. (52 #5642)
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- Différents aspects de la positivité ★Différents aspects de la positivité. (50 #2541)
- Geometry collection ★Геометрический сборник. Вып. 13. (Russian) [Geometry collection. No. 13] (49 #9749)
- Logic See Toposes, algebraic geometry and logic, (48 #8592)
- Modular functions of one variable ★Modular functions of one variable. IV. (51 #12708)
- Modules in representation theory and algebraic geometry ★Модули в теории представлений и алгебраической геометрии. (Russian) [Modules in representation theory and algebraic geometry] (54 #10339)
- Number theory See Proceedings: International Conference on Number Theory, (48 #213)
- Proceedings:
- International Conference on Number Theory ★Труды международной конференции по теории чисел (Москва, 14–18 сентября 1971 г.). (Russian) [Proceedings of the International Conference on Number Theory (Moscow, September 14–18, 1971)] (48 #213)
- Representation theory See Modules in representation theory and algebraic geometry, (54 #10339)
- Séminaire:
- Géométrie Analytique See Différents aspects de la positivité, (50 #2541)
- Several complex variables ★Several complex variables. II. Maryland, 1970. (45 #585)
- Summer School:
- Modular Functions of One Variable See Modular functions of one variable, (51 #12708)
- Toposes, algebraic geometry and logic ★Toposes, algebraic geometry and logic. (48 #8592)

14Axx Foundations

14A05 Relevant commutative algebra [See also 13--XX.]

- Brezuleanu, Alexandru (with Radu, Nicolae) Geometric regularity and formal smoothness. (Italian summary) 48 #6105
- Gröbner, Wolfgang Teoria degli ideali e geometria algebrica. (German summary) 46 #9037
- Gulliksen, Tor Holte A homological characterization of local complete intersections. 46 #168
- Neefmann, Dieter Zur Charakterisierung lokaler Ringe durch Koeffizienten des Hilbert-Samuelschen Polynoms. 51 #492
- Radu, Nicolae See Brezuleanu, Alexandru, 48 #6105
- Raynaud, Michel Flat modules in algebraic geometry. 46 #1789
- Stagnaro, Ezio Sopra alcune estensioni delle nozioni di dipendenza integrale e di fattorialità, ed applicazioni geometriche. (English summary) 45 #8653

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- Brewer, James W. (with Heitmann, Raymond C.; Lady, E. L.; Rutter, Edgar A., Jr.) Finite presentation of simple flat algebras. (54 #5214)
- Deuring, Max ★Lectures on the theory of algebraic functions of one variable. (49 #8970)
- Eisenreich, Günther Zur Syzygientheorie und Theorie des inversen Systems perfekter Ideale und Vektormoduln in Polynomringen und Stellenringen. (45 #6808)
- Flexor-Mangeney, Marguerite Une propriété des anneaux unibranches. (49 #2702)
- Fritzsche, Volkmar Primideale und minimale Primärdeale in kommutativen Algebren mit Einselement. (Russian, English and French summaries) (54 #10228)
- Fujita, Kazunori Some counterexamples related to prime chains in integral domains. (52 #8114)
- Greenberg, Brian (with Vasconcelos, Wolmer V.) Coherence of polynomial rings. (54 #5223)
- Heitmann, Raymond C. See Brewer, James W.; et al., (54 #5214)
- Herrmann, Manfred (with Vogel, Wolfgang) Über Cohen-Macaulay Punkte. (47 #4996)
- Lady, E. L. See Brewer, James W.; et al., (54 #5214)
- Matsumura, Hideyuki Formal power series rings over polynomial rings. I. (51 #3155)
- McCabe, John A note on Zariski's lemma. (54 #2628)
- Mount, Kenneth R. (with Villamayor, Orlando E.) On a conjecture of Y. Nakai. (48 #6073)
- Nomura, Masayuki Formal power series rings over polynomial rings. II. (51 #3156)
- Poletti, Mario Anelli p -adici e loro rappresentazioni. (45 #1902)
- Procesi, Claudio Finite dimensional representations of algebras. (50 #9975)
- Renschuch, Bodo Rekursive Definition von H -Idealen der Hauptklasse. (Russian and English summaries) (50 #4560)
- Robinson, Abraham On bounds in the theory of polynomial ideals. (49 #2364)
- Rutter, Edgar A., Jr. See Brewer, James W.; et al., (54 #5214)
- Seydi, Hamet Un critère jacobien des points simples. (47 #4995)
- A propos du critère jacobien de lissité formelle de Nagata. (49 #2695)
- Stückrad, Jürgen (with Vogel, Wolfgang) Ein Korrekturglied in der Multiplizitätstheorie von D. G. Northcott und Anwendungen. (46 #5305)
- Vasconcelos, Wolmer V. See Greenberg, Brian, (54 #5223)
- Villamayor, Orlando E. See Mount, Kenneth R., (48 #6073)
- Vinogradov, A. M. The algebra of logic of the theory of linear differential operators. (Russian) (46 #3498)
- Vogel, Wolfgang See Stückrad, Jürgen, (46 #5305) and Herrmann, Manfred, (47 #4996)
- Wadsworth, Adrian R. Hilbert subalgebras of finitely generated algebras. (55 #329)
- Waterhouse, William C. On p -divisible groups over complete valuation rings. (45 #1905)

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- Brückmann, Peter Tensor differential forms on algebraic varieties. (Russian) 45 #1926
- Ciliberto, Ciro Sulle varietà limiti delle trasformate omografiche di una varietà assegnata. 58 #22057
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- Drechsler, Konrad Die Homologiegruppen der Varietät der vollständigen Kegelschnitte. 45 #258
- El Zein, Fouad Résidus en géométrie algébrique. 45 #1927
- Galbiati, Margherita (with Tognoli, Alberto) Alcune proprietà delle varietà algebriche reali. 51 #493
- Gasapina, Umberto Sulla regolarità della somma dei sistemi lineari d'ipersuperficie appartenenti ad una varietà algebrica normale. 45 #3401
- Godeaux, Lucien Variétés canoniques des variétés algébriques de rang deux. 45 #1907
- Gröbner, Wolfgang Il concetto di molteplicità nella geometria algebrica. (English summary) 45 #259
- Kuan, Wei Eihm On the hyperplane section through a rational point of an algebraic variety. 45 #1910
- Motzkin, Theodore S. For a nonclosing field, every algebraic variety is a hypersurface, or all of space. 46 #5322
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- Richardson, R. W., Jr. Principal orbit types for algebraic transformation spaces in characteristic zero. 45 #3405
- Strambach, Karl Algebraische Geometrien. 54 #2649
- Tognoli, Alberto See Galbiati, Margherita, 51 #493
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- Zariski, O. ★An introduction to the theory of algebraic surfaces. 49 #8985

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Efroymsen, Gustave A. Real varieties and p -adic varieties. (58 #5679)

14A15 Schemes

- Altman, Allen B. (with Kleiman, Steven L.) On the purity of the branch locus. 46 #7233 (E 50 #326)
- Bădescu, Lucian Sur les schémas éclatés. 45 #3423
- Barattero, Rosalba (with Zatini, Elsa) Spettri affini e proiettivi di Jacobson. (English summary) 58 #5660
- Brezuleanu, Alexandru On the subminischemes of a minischeme. 45 #3424
- Conte, Alberto Proprietà di separazione della topologia di Zariski di uno schema. (English summary) 50 #2163
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- Heltmann, Raymond C. A connected absolutely flat scheme. **56** #11994
- Iversen, Birger ★Generic local structure of the morphisms in commutative algebra. **50** #13023
- Kleiman, Steven L. See Altman, Allen B., **46** #7233 (E **50** #326)
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- Maroschia, Paolo Quelques remarques sur la topologie des schémas. **51** #3165
- Miyaniishi, Masayoshi ★Introduction à la théorie des sites et son application à la construction des préschémas quotients. **50** #2165
- Ohi, Takeo Affine open subsets of an affine scheme. **54** #306
- Ramos Zúñiga, Zenaida E. A property of theta-functions. (Spanish) **58** #27956
- Raynaud, Michel (with Gruson, Laurent) Critères de platitude et de projectivité. Techniques de "platification" d'un module. **46** #7219
- Suria, Giuseppe Vigna Schemi quasi compatti massimali. (English summary) **53** #2938
- Takeuchi, Mitsuhiro Formal schemes over fields. **58** #16645
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- (Anantharaman, Sivaramakrishna) See Murre, Jacob P., (**46** #1794)
- Bkouché, Rudolphe Couples spectraux et faisceaux associés. Applications aux anneaux de fonctions. (**57** #17290)
- Brinzănescu, Vasile The characterization of the immersions of a scheme in Proj (\mathbb{S}). (Romanian. French summary) (**49** #5010)
- Gaudier, Henri Sur les w_k -bimodules et les k -anneaux connexes. (**46** #169)
- Greco, Silvio Sulla nozione di preschema henseliano. (English summary) (**47** #1877)
- Hanna, Charles C. Subbundles of vector bundles on the projective line. (**58** #667)
- Laquain, Yves Differential simplicity and a criterion for normality. (**50** #9861)
- Murre, Jacob P. ★Lectures on an introduction to Grothendieck's theory of the fundamental group. (**46** #1794)
- Picco Botta, Luciana (with Verra, Alessandro) Schemi T_D : un controesempio. (English summary) (**58** #627)
- Verra, Alessandro See Picco Botta, Luciana, (**58** #627)

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- Artin, Michael ★Algebraic spaces. **53** #10795
★Théorèmes de représentabilité pour les espaces algébriques. **53** #10794
- (Boutot, Jean-François) See Artin, Michael, **53** #10794
- Hoppe, K. Über die spektrale Zerlegung der algebraischen Formen auf der Grassmann-Mannigfaltigkeit. **45** #8658
- Iliev, M. D. Finiteness conditions for algebraic stacks. (Bulgarian. Russian and English summaries) **58** #5661
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- Knutson, Donald ★Algebraic spaces. **46** #1791
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- Lazzeri, Fulvio (with Tognoli, Alberto) Alcune proprietà degli spazi algebrici. **45** #1909
- Mora, Fulvio Ideali di definizione e morfismi di schemi henseliani. (English summary) **56** #350
- Mulvey, Christopher J. Espaces annelés compacts. (English summary) **54** #12759
- Pfister, Gerhard Algebraische Räume und ihre geometrische Realisierung. **49** #2721
- Solomon, L. A. Information complexity of problems associated with minimal realization of Boolean functions by networks. **53** #12785
- Tate, J. Rigid analytic spaces. (Russian) **46** #5324
Rigid analytic spaces. **46** #5323
- Tognoli, Alberto See Lazzeri, Fulvio, **45** #1909
- Treger, R. B. Quasicoherent sheaves. (Russian) **54** #10246
- Winters, Gayn B. An elementary lecture on algebraic spaces. **50** #7136

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- Artin, Michael Construction techniques for algebraic spaces. (**55** #350)
- Doussouki, Tarek Normalisation d'un espace algébrique. (**50** #5002)
- Mazur, Joseph Conditions for the existence of contractions in the category of algebraic spaces. (**52** #8123)
- Nastold, H. J. Über analytische und algebraische Geometrie über nichtarchimedisch komplett bewerteten Körpern. (**48** #8857)
- Raoult, Jean-Claude Compactification des espaces algébriques. (**49** #5011)
- Schlomiuk, Dana I. Topos di Grothendieck e topos di Lawvere e Tierney. (English summary) (**51** #3252)
- Szeto, George (with Wong, Yuen Fat) On sheaf representations of near-algebras without nilpotent elements. (**58** #11034)
- Wong, Yuen Fat See Szeto, George, (**58** #11034)

14A25 Elementary questions

- Bergman, George M. The Zariski topology and generalizations. **49** #10690
- Bernardi, Marco (with Guglielmann Grieco, Marisa) Sulla convergenza delle successioni rispetto alla topologia di Zariski. **52** #3147
(with Guglielmann Grieco, Marisa) Ancora sulla convergenza rispetto alla topologia di Zariski. (English summary) **58** #10878
- Cherenack, Paul The topological nature of algebraic contractions. **50** #7137
- Dubois, D. (with Efrogmson, Gustave A.) A dimension theorem for real primes. **49** #2722
- Efrogmson, Gustave A. A Nullstellensatz for Nash rings. **50** #13024
See also Dubois, D., **49** #2722
- Erastov, K. D. Diametral conjugacy of points over an arbitrary algebraically closed field. (Russian) **57** #12499

- Fridlender, V. R. See Zobin, N. M.; et al., **58** #16647
- Fritzsche, Volkmar Eine Methode zur Berechnung von allgemeinen Nullstellen einer Primideale. (Russian, English and French summaries) **55** #346
- Fujita, Kazunori A note on Hilbert's Nullstellensatz. **50** #317
- Gagliardi, Carlo Su di una caratterizzazione algebrica degli spazi topologici. (English summary) **52** #5663
- Goelman, Don The critical set of the reduced norm, as an algebraic set. **51** #494
- Goldston Barnwell, Beth (with Mewborn, Ancel C.) A structure sheaf for a noncommutative Noetherian ring. **56** #5540
- Goto, Morikuni Pre-Zariski topology. **54** #12760
- Guglielmann Grieco, Marisa See Bernardi, Marco, **52** #3147 and Bernardi, Marco, **58** #10878
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- Jurkiewicz, Jerzy Morphisms and automorphisms functors of affine schemes. (Russian summary) **48** #3959
- Kobayashi, Yuji Existence of fundamental systems of ideals of definition on a formal prescheme. **49** #2723
- Laquain, Yves Differential simplicity and a criterion for normality. **50** #9861
- Limaye, Balmohan V. (with Limaye, Nirmala B.) Fundamental theorem for the projective line over non-commutative local rings. **58** #658a
(with Limaye, Nirmala B.) Correction to: "Fundamental theorem for the projective line over non-commutative local rings" (Arch. Math. (Basel) **28** (1977), 102-109). **58** #658b
- Limaye, Nirmala B. See Limaye, Balmohan V., **58** #658a and Limaye, Balmohan V., **58** #658b
- Martin-Deschamps, Mireille Étude des ouverts affines d'un schéma Proj R . **46** #7237
- Mewborn, Ancel C. See Goldston Barnwell, Beth, **56** #5540
- Mostowski, Tadeusz Some properties of the ring of Nash functions. **54** #307
- Ohi, Takeo A remark on "Nullstellensatz" of varieties. **56** #351
- Panella Martinelli, Luigia Una generalizzazione dell'invariante di Mehmke-Segre. (English summary) **56** #5541
- Procesi, Claudio A noncommutative Hilbert Nullstellensatz. **57** #6010
- Reichard, Klaus Zum Satz von Osgood und Hartogs in der algebraischen Geometrie. **49** #10691
- Ribenboim, Paulo Le théorème des zéros pour les corps ordonnés. **53** #415
- Risler, Jean-Jacques Le théorème des zéros en géométries algébrique et analytique réelles. **54** #5226
- Roberts, Lawrence G. An algebraic proof of an analytic result of Shuck's. **48** #6106
- Schweizer, Urs Fortsetzung von Spezialisierungen: ein idealtheoretischer Zugang. **51** #3166
- Silhol, R. Géométrie algébrique sur un corps non algébriquement clos. **58** #16646
- Sočneva, V. A. See Zobin, N. M.; et al., **58** #16647
- Stammler, Ludwig Zur Spezialisierungstheoretischen Charakterisierung der Freiheit und ϕ -Freiheit. **54** #308
- Stützer, H. Die elementare Formulierbarkeit von Dimension und Grad algebraischer Mannigfaltigkeiten. **56** #3003
- Swinerton-Dyer, H. P. F. An enumeration of all varieties of degree 4. **49** #5008
- Szekeres, George Homogeneous ideals in $K[x, y, z]$. **52** #5664
- Thas, Joseph Adolphe On the θ -normals of a parabola. (Dutch) **46** #172
- van der Waerden, B. L. Zur algebraischen Geometrie 20. Der Zusammenhangssatz und der Multiplizitätsbegriff. **45** #261
- Zobin, N. M. (with Sočneva, V. A.; Fridlender, V. R.) An algebraically closed field. (Russian) **58** #16647

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- Bayart, Marc Séries formelles irréductibles en une variable. (English summary) (**53** #10791)
- Bochnak, Jacek (with Risler, Jean-Jacques) Le théorème des zéros pour les variétés analytiques réelles de dimension 2. (**53** #854)
- Bompiani, Enrico Calotte superficiali e superficie algebriche per esse. (English summary) (**46** #9050)
- Cohn, Paul Moritz Presentations of skew fields. I. Existentially closed skew fields and the Nullstellensatz. (**50** #13132)
Zum Begriff der Spezialisierung über Schiefkörpern. (**58** #5743)
- Collino, Alberto Proprietà omotopiche delle varietà algebriche complesse dotate della topologia di Zariski. (English summary) (**48** #2979)
- Eklof, Paul C. Lefschetz's principle and local functors. (**48** #3736)
- Guérindon, Jean Séries restreintes et compacité linéaire. (**54** #10244)
- Kaklé, Kunio The resultant of several homogeneous polynomials in two indeterminates. (**52** #8099)
- Limaye, Nirmala B. Cross-ratios and projectivities of a line. (**47** #3373)
- Morgantini, Edmondo Sulle soluzioni razionali di un particolare sistema algebrico. (**58** #5507)
- Nagata, Masayoshi Subrings of a polynomial ring of one variable. (**57** #9693)
- Papadimitriou, Christos H. On the algebraic complexity of sets of functions. (**58** #19359)
- Pauer, Franz Spezielle Algebren und transitive Operationen. (**58** #27939)
- Radu, Nicolae Sur l'ensemble des idéaux premiers formellement lisses. (Italian summary) (**52** #3148)
- Risler, Jean-Jacques Sur l'anneau des fonctions de Nash globales. (**47** #7057)
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- Stengle, Gilbert A nullstellensatz and a positivstellensatz in semialgebraic geometry. (**48** #11073)

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Weispfenning, Volker Two model theoretic proofs of Rückert's Nullstellensatz. (51 #5296)

Whiteley, Walter Homogeneous sets and homogeneous formulas. (52 #82)

Latini, Elsa Anelli graduati di Jacobson e teorema degli zeri proiettivo. (51 #5575)

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Galbiati, Margherita (with Tognoli, Alberto) Alcune proprietà delle varietà algebriche reali. (English summary) 46 #5325

Katz, Nicholas M. Nilpotent connections and the monodromy theorem: Applications of a result of Tjuritin. 45 #271

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Risler, Jean-Jacques Résultats récents sur les fonctions de Nash. 54 #12761

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Cherlin, Gregory L. Model theoretic algebra. (54 #90)

Gol'dstein, M. Š. Principal divisors on compact Riemann surfaces. (Russian) (55 #3237)

Kolchin, Ellis Differential equations in a projective space and linear dependence over a projective variety. (50 #4555)

Lewis, Donald J. Invariant sets of morphisms on projective and affine number spaces. (46 #1746)

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Secondary classifications:

Hochster, Melvin ★Topics in the homological theory of modules over commutative rings. (51 #8096)

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- Neumann, Walter D.** See Kauffman, Louis H., (58 #7644)
- Oda, Tadao** Hironaka's additive group scheme. (57 #12514)
- Oka, Mutsuo** On the homotopy types of hypersurfaces defined by weighted homogeneous polynomials. (46 #9053)
On the topology of the complement of a hypersurface. (Japanese) (Not reviewed)
- Ono, Isao** (with Yoshinaga, Etsuo) The conductor numbers of isolated 2-dimensional singularities resolved by $M(k_1, \dots, k_r)$. (53 #865)
- Orlik, Peter** (with Wagreich, Philip) Seifert n -manifolds. (50 #13596)
(with Wagreich, Philip) Algebraic surfaces with k^* -action. (57 #336)
- Pinkham, Henry C.** ★Deformations of algebraic varieties with G_m action. (51 #12847)
Simple elliptic singularities, Del Pezzo surfaces and Cremona transformations. (56 #358)
Deformations of quotient surface singularities. (56 #5555)
- Pommerening, Klaus** Über die unipotenten Klassen reduktiver Gruppen. (58 #918)
- Popp, Herbert** Stratifikation von Quotientenmannigfaltigkeiten (in Charakteristik 0) und insbesondere der Modulmannigfaltigkeiten für Kurven. (46 #180)
- Randell, Richard C.** Quotients of complete intersections by C^* actions. (58 #6334)
- Riemenschneider, Oswald** Deformations of rational singularities and their resolutions. (50 #7578)
Dihedral singularities: invariants, equations and infinitesimal deformations. (53 #11094a (E 53 #11094b))
See also Behnke, Kurt, (56 #5554)
- Roberts, Joel L.** Singularity subschemes and generic projections. (54 #10265)
- Ronga, Felice** Applications polynômiales de degré deux du plan projectif complexe dans lui-même. (54 #2655)
- Rosenberger, Gerhard** Eine analytische Kennzeichnung einer Klasse diskreter Gruppen und ihrer Riemannschen Flächen. (58 #17080)
- Russell, Peter** On Hironaka's additive groups associated with points in projective space. (57 #12515)
- Saito, Kyoji** Calcul algébrique de la monodromie. (51 #12845)
Regularity of Gauss-Manin connection of flat family of isolated singularities. (51 #12846)
See also Lê Dũng Tráng, (50 #2556)
- Sakamoto, Koichi** The Seifert matrices of Milnor fiberings defined by holomorphic functions. (50 #14771)
- Sally, Judith D.** Boundedness in two dimensional local rings. (58 #5652)
- Schaps, Mary** See Mandelbaum, Richard, (55 #2896) and Mandelbaum, Richard, (55 #2897)
- Scharf, Alois** ★Faserungen von Graphenmannigfaltigkeiten. (54 #13920)
- Schulze-Röbbecke, Thomas** ★Algorithmen zur Auflösung und Deformation von Singularitäten ebener Kurven. (57 #331)
- Šostaišvili, A. N.** The lattice of ideals of local rings of finite-to-one mappings of spaces of the same dimension is self-dual. (Russian) (58 #6336)
- Speder, Jean-Paul** See Briançon, Joël, (54 #7843) and Canuto, G., (56 #5934)
- Steenbrink, Joseph** Mixed Hodge structure on the vanishing cohomology. (58 #5670)
- Steinberg, Robert** ★Conjugacy classes in algebraic groups. (50 #4766)
- Summers, D. W.** (with Woods, J. M.) A short proof of finite monodromy for analytically irreducible plane curves. (49 #7476)
(with Woods, J. M.) The monodromy of reducible plane curves. (56 #16643)
- Tetssier, Bernard** Cycles évanouissants et conditions de Whitney. (48 #8840)
Déformations à type topologique constant. (54 #3023)
Variétés polaires. I. Invariants polaires des singularités d'hypersurfaces. (57 #10004)
See also Eisenbud, David; et al., (57 #7651)
- Todorov, A. N.** Conditions for the finiteness of the monodromy for a family of curves and surfaces. (Russian) (54 #10259)
- Tougeron, Jean-Claude** Modules stratifiables sur l'anneau des germes de fonctions numériques C^∞ à l'origine de \mathbb{R}^n . (57 #10728)
- Viviente Mateu, José L.** Sur le module dérivé d'un homomorphisme. (55 #4130)
- Wagreich, Philip** See Orlik, Peter, (50 #13596) and Orlik, Peter, (57 #336)
- Wahl, Jonathan M.** Equisingular deformations of normal surface singularities. I. (54 #10261)
See also Burns, Daniel, Jr., (50 #2168)
- Wajnryb, Bronislaw** The Lefschetz vanishing cycles on a projective nonsingular plane curve. (58 #22082)
- Wallace, Andrew H.** Three types of equisingularity for curves. (55 #5641)
- Woods, J. M.** See Summers, D. W., (49 #7476) and Summers, D. W., (56 #16643)
- Yano, Tamaki** Theory of b -functions: examples. (Japanese) (58 #11508)
- Yomdin, Y.** Local topological properties of complex algebraic sets. (Russian) (56 #5930)
Complex surfaces with a one-dimensional set of singularities. (Russian) (56 #5931)
- Yoshinaga, Etsuo** See Ono, Isao, (53 #865)
- Zanoboni, S.** See Di Stefano, F., (51 #8480)

14B10 Infinitesimal methods

- Avramov, L. L.** Flat morphisms of complete intersections. (Russian) 53 #421
- Boutot, Jean-François** Frobenius et cohomologie locale (d'après R. Hartshorne et R. Speiser, M. Hochster et J. L. Roberts, C. Peskine et L. Szpiro). 56 #5548
- Brown, William C.** Blow up sequences and the module of n th order differentials. 58 #10885

- Francia, Paolo Su alcuni esempi di Lascu e Moîșezon. **56** #5550
 (Hartshorne, Robin) See Boutot, Jean-François, **56** #5548
 (Hochster, Melvin) See Boutot, Jean-François, **56** #5548
 Illusie, Luc ★Complexe cotangent et déformations. I. **58** #10886a
 ★Complexe cotangent et déformations. II. **58** #10886b
 Cotangent complex and deformations of torsors and group schemes. **58** #10887
 Iversen, Birger Amplitude inequalities for complexes. **58** #27966
 Mahé, Louis Topos infinitésimal. **49** #8986
 Nobile, Augusto Some properties of the Nash blowing-up. **53** #13217
 (Ogus, Arthur) See Szpiro, Lucien, **56** #5549
 Paxia, Giuseppe Ascent of properties for absolutely flat homomorphisms. **58** #10888
 (Peskin, Christian) See Boutot, Jean-François, **56** #5548
 Pfister, Gerhard (with Popescu, Dorin) Die strenge Approximationseigenschaft lokaler Ringe. **52** #395
 Popescu, Dorin See Pfister, Gerhard, **52** #395
 Radu, Nicolae Sur la lissité d'une classe d'algèbres. **53** #5584
 Rim, Dock Sang Torsion differentials and deformation. **49** #7259
 (Roberts, Joel L.) See Boutot, Jean-François, **56** #5548
 Seidenberg, Abraham Differential ideals in complete local rings. **48** #11108
 (Speiser, Robert) See Boutot, Jean-François, **56** #5548
 Szpiro, Lucien Cohomologie des ouverts de l'espace projectif sur un corps de caractéristique zéro (d'après A. Ogus). **56** #5549
 See also Boutot, Jean-François, **56** #5548
 Takeuchi, Mitsuhiro Tangent coalgebras and hyperalgebras. I. **52** #10725
 Valabrega, Paolo Formal fibers and openness of loci. **58** #5665
 Washburn, Sherwood Analytically trivial families of local rings. **51** #8107
 Winters, Gayn B. Lifting properties and smoothness. **57** #6017
 Yamada, Hiroshi On formal schemes. **52** #396

Secondary classifications:

- André, Michel Artin's theorem on the solutions of analytic equations in positive characteristic. (52 #398)
 Artin, Michael ★Algebraic spaces. (53 #10795)
 ★Théorèmes de représentabilité pour les espaces algébriques. (53 #10794)
 Beauville, Arnaud Foncteurs sur les anneaux artiniens application aux déformations verselles. (50 #2167)
 Boutot, Jean-François Schéma de Picard local. (49 #10694)
 See also Artin, Michael, (53 #10794)
 Brezuleanu, Alexandru Smoothness and regularity. (46 #9036)
 Cox, S. H., Jr. The preparation theorem and the freeness of $A[[X]]/I$. (55 #351)
 Elkik, René Solution d'équations au-dessus d'anneaux henséliens. (50 #4579)
 Algébrisation du module formel d'une singularité isolée. (50 #4580)
 Ferrand, Daniel Monomorphismes et morphismes absolument plats. (47 #6687)
 Flenner, Hubert Die Sätze von Bertini für lokale Ringe. (57 #311)
 Gruson, Laurent Une propriété des couples henséliens. (54 #314)
 Hubbard, John Hamal Le théorème de M. Artin sur les solutions d'équations analytiques. (50 #4581)
 (Lascu, Alexandru) See Artin, Michael, (53 #10794)
 Lindner, Martin Über relative Automorphismen geometrischer k -Algebren. (50 #9868 (EA 51))
 Márki, László See Vogel, Wolfgang, (57 #6004a) and Vogel, Wolfgang, (57 #6004b)
 Meredith, David Weak formal schemes. (48 #8505)
 Paxia, Giuseppe Omomorfismi assolutamente piatti e anelli di valutazione. (English summary) (53 #5578)
 Pfister, Gerhard Ringe mit Approximationseigenschaft. (49 #2718)
 See also Roczen, Marko, (55 #5628) and Roczen, Marko, (55 #5629)
 Popescu, Dorin A strong approximation theorem over discrete valuation rings. (52 #13834)
 Some algorithmic methods in the theory of local complete rings. (58 #668)
 van der Put, Marius A problem on coefficient fields and equations over local rings. (52 #5668)
 Ramis, Jean-Pierre (with Ruget, Gabriel; Verdier, Jean-Louis) Dualité relative en géométrie analytique complexe. (46 #7553)
 Raynaud, Michel Anneaux henséliens et approximations. (50 #13019)
 Roczen, Marko (with Pfister, Gerhard) Algebraische ausgezeichnete Deformationen in der Ebene. (55 #5629)
 (with Pfister, Gerhard) Zum Satz von Weierstrass-Grauert für algebraische Potenzreihen. (55 #5628)
 Ruget, Gabriel See Ramis, Jean-Pierre; et al., (46 #7553)
 Schaub, D. Propriété topologique du gradué associé d'un anneau (S_*) . (58 #22055)
 Schlesinger, Michael On rigid singularities. (49 #9258)
 Seydi, Hamet Sur le critère jacobien de Nagata. (47 #3382)
 Strano, Rosario Sulla lissificazione stretta di un corpo valutato. (English summary) (53 #5579)
 Verdier, Jean-Louis See Ramis, Jean-Pierre; et al., (46 #7553)
 Vogel, Wolfgang (with Márki, László) On the theory of local rings. I. A certain problem of D. A. Buchsbaum. (Hungarian) (57 #6004a)
 (with Márki, László) On the theory of local rings. II. A certain problem of D. A. Buchsbaum. (Hungarian. English and Russian summaries) (57 #6004b)
 Zak, F. L. Deformations of modifications of algebraic spaces. (Russian) (54 #12770)

14B15 Local cohomology [See also 18H20.]

- Buchsbaum, David A. (with Eisenbud, David) What annihilates a module? **57** #16293
 Eisenbud, David See Buchsbaum, David A., **57** #16293
 Faltings, Gerd Über die Annulatoren lokaler Kohomologiegruppen. **58** #22058
 Grothendieck, A. ★Cohomologie locale des faisceaux cohérents et théorèmes de Lefschetz locaux et globaux (SGA 2). **57** #16294
 Hartshorne, Robin (with Speiser, Robert) Local cohomological dimension in

- characteristic p . **56** #353
 Hochster, Melvin (with Roberts, Joel L.) The purity of the Frobenius and local cohomology. **54** #5230
 Lorenzani, Massimo (with Maschietti, Antonio) Su di un teorema di confronto. (English summary) **54** #10250
 (with Maschietti, Antonio) Quelques remarques sur la cohérence des faisceaux cohomologie locale. (English summary) **54** #10249
 Ludington, Anne L. A counterexample to two conjectures about high order derivations and regularity. **56** #5551
 Maschietti, Antonio See Lorenzani, Massimo, **54** #10249 and Lorenzani, Massimo, **54** #10250
 Matsumura, Hideyuki Quasi-coefficient rings of a local ring. **56** #15636
 Ogus, Arthur Local cohomological dimension of algebraic varieties. **58** #22059
 Peskin, Christian Théorèmes de finitude et de nullité pour la cohomologie des schémas. **48** #11109
 (with Szpiro, Lucien) Dimension projective finie et cohomologie locale. Applications à la démonstration de conjectures de M. Auslander, H. Bass et J. Grothendieck. **51** #10330
 (Raynaud, Michèle) See Grothendieck, A., **57** #16294
 Rego, C. J. Remarks on differential operators on algebraic varieties. **58** #22060
 Roberts, Joel L. See Hochster, Melvin, **54** #5230
 Schenzel, Peter Einige Anwendungen der lokalen Dualität und verallgemeinerte Cohen-Macaulay-Moduln. **53** #2940
 Speiser, Robert See Hartshorne, Robin, **56** #353
 Suominen, Kalevi Localization of sheaves and Cousin complexes. **54** #2651
 Szpiro, Lucien See Peskin, Christian, **51** #10330

Secondary classifications:

- Bănică, Constantin (with Brînzănescu, Vasile) Hilbert-Samuel polynomials of a complex of modules. (55 #10448)
 Brînzănescu, Vasile See Bănică, Constantin, (55 #10448)
 Duma, Andrei Weierstrass-Punkte und kanonische stetige Familien von Riemannschen Metriken auf regulären Familien kompakter Riemannscher Flächen. (50 #13612)
 El Zein, Fouad Résidus en géométrie algébrique. (46 #178)
 Kunz, Ernst Residuen von Differentialformen auf Cohen-Macaulay-Varietäten. (58 #676)
 Orlik, Peter (with Solomon, Louis) Singularities. II. Automorphisms of forms. (57 #16292b)
 (with Solomon, Louis) Singularities. I. Hypersurfaces with an isolated singularity. (57 #16292a)
 Paugam, Michel La condition (G_*) de Ischebeck. (49 #10683)
 La condition G_* de Ischebeck pour les modules. (49 #10684)
 Renschuch, Bodo (with Stückrad, Jürgen; Vogel, Wolfgang) Weitere Bemerkungen zu einem Problem der Schnitttheorie und über ein Mass von A. Seidenberg für die Imperfekteit. (54 #12757)
 Sharp, Rodney Y. Dualizing complexes for commutative Noetherian rings. (52 #3138)
 Some results on the vanishing of local cohomology modules. (52 #379)
 Solomon, Louis See Orlik, Peter, (57 #16292a) and Orlik, Peter, (57 #16292b)
 Stückrad, Jürgen See Renschuch, Bodo; et al., (54 #12757)
 Vogel, Wolfgang See Renschuch, Bodo; et al., (54 #12757)

14B20 Formal neighborhoods

- Brezuleanu, Alexandru (with Radu, Nicolae) On the localization of formal smoothness. **52** #8122
 Lazzeri, Fulvio (with Stănășilă, Octavian; Tognoli, Alberto) Some remarks on q -flat C^∞ functions. (Italian summary) **50** #320
 Radu, Nicolae See Brezuleanu, Alexandru, **52** #8122
 Stănășilă, Octavian See Lazzeri, Fulvio; et al., **50** #320
 Tognoli, Alberto See Lazzeri, Fulvio; et al., **50** #320

Secondary classifications:

- Bănică, Constantin Le complété formel d'un espace analytique le long d'un sous-espace: un théorème de comparaison. (English summary) (46 #389)
 Doussouki, T. A remark on the first neighbourhood ring of a Noetherian Cohen-Macaulay local ring of dimension one. (53 #2934)
 Greco, Silvio (with Valabrega, Paolo) On the excellent property for strictly convergent power series over a complete non archimedean valued field. (Italian summary) (52 #13799)
 Grothendieck, A. (with Murre, Jacob P.) ★The tame fundamental group of a formal neighbourhood of a divisor with normal crossings on a scheme. (47 #5000)
 Messing, William ★The crystals associated to Barsotti-Tate groups: with applications to abelian schemes. (50 #337)
 Murre, Jacob P. See Grothendieck, A., (47 #5000)
 Ogus, Arthur On the formal neighborhood of a subvariety of projective space. (53 #5591)
 The formal Hodge filtration. (53 #5592)
 Speiser, Robert Cohomological dimension and Abelian varieties. (48 #3964)
 Valabrega, Paolo See Greco, Silvio, (52 #13799)
 Zak, F. L. q -finite morphisms in formal algebraic geometry. (Russian) (54 #7461)

14B99 None of the above, but in this section

- Bernšteín, D. N. The number of roots of a system of equations. (Russian) **55** #8034
 Brîndeu, L. See Gheorghiu, Octavian Em., **54** #10251
 Efronson, Gustave A. Local reality on algebraic varieties. **51** #495
 Faltings, Gerd Ein einfacher Beweis, dass geometrische Regularität formale Glattheit impliziert. **58** #662
 Gheorghiu, Octavian Em. (with Brîndeu, L.) On the differential equations of plane

algebraic curves and the partial differential equations of algebraic surfaces. (Romanian. Russian and German summaries) **54** #10251

Hironaka, Heisuke Triangulations of algebraic sets. **51** #10331

Marinari, Maria Grazia Examples of bad Noetherian local rings. **58** #5666

Massaza, Carla (with Valabrega, Paolo) Sull'apertura di luoghi in uno schema localmente noetheriano. (English summary) **58** #663

Miyawishi, Masayoshi Some remarks on polynomial rings. **49** #2726

Radu, Nicolae Sur un critère de lissité formelle. **58** #10889

Reufel, Manfred Beiträge zur Multiplizitäten- und Spezialisierungstheorie. I. **54** #7457

Sugatani, Takasi On quasi-Noetherian rings which are not Noetherian. **58** #664

Valabrega, Paolo See **Massaza, Carla**, **58** #663

Zvonilov, V. I. Harlamov's inequalities, and the Petrovskii-Oleinik inequalities. (Russian) **53** #422

Secondary classifications:

Bass, Hyman (with Connell, E. H.; Wright, David Lee) Locally polynomial algebras are symmetric. **(54** #2634)

Brodmann, Markus Eine Bemerkung zur Theorie der \mathfrak{P} -Ringe. **(58** #10903)

Connell, E. H. See **Bass, Hyman**; et al., **(54** #2634)

Denneberg, Dieter Universell-endliche Erweiterungen analytischer Algebren. **(49** #3224)

Eakin, Paul M. (with Harris, Gary Alvin) When $F(f)$ convergent implies f is convergent. **(56** #3001)

Harris, Gary Alvin See **Eakin, Paul M.**, **(56** #3001)

(Hornich, Hans) See **Reich, Ludwig**, **(56** #11990)

Kimura, Toshihisa (with Sibuya, Yasutaka) Essential singular points of solutions of an algebraic differential equation. **(51** #8508)

Laquain, Yves A criterion for a point to be geometrically unbranched. **(55** #2904)

Olster, Geert Jan On the existence of analytic solutions of systems of equations if the Jacobian is zero. **(49** #3192)

Pfister, Gerhard Treuflache Äquivalenzrelationen in der Kategorie der lokal geringten Räume. **(58** #5663)

Reich, Ludwig Über die Unzerlegbarkeit konvergenter Primreihen im Ring der formalen Potenzreihen und verwandte Fragen. **(56** #11990)

Restuccia, Gaetana Criteri jacobiani di regolarità ed eccellenza per anelli di serie ristrette. (English summary) **(58** #5616)

Rohlin, V. A. Complex orientation of real algebraic curves. (Russian) **(51** #4286)

Schaub, D. Multiplicité et dépendance intégrale sur un idéal. **(56** #15633)

Scheja, Günter (with Storch, Uwe) ★Lokale Verzweigungstheorie. **(54** #294)

Seydi, Hamet Un critère jacobien de régularité pour les localisés des anneaux locaux de la géométrie analytique. (English summary) **(58** #11488)

Sibuya, Yasutaka See **Kimura, Toshihisa**, **(51** #8508)

Storch, Uwe Lokale Algebra und lokale Geometrie. **(56** #11993)

See also **Scheja, Günter**, **(54** #294)

Wright, David Lee See **Bass, Hyman**; et al., **(54** #2634)

14Cxx Cycles and subschemes

14C05 Parametrization (Chow and Hilbert schemes)

Altman, Allen B. (with Kleiman, Steven L.) Joins of schemes, linear projections. **53** #423

(with Iarrobino, Anthony A.; Kleiman, Steven L.) Irreducibility of the compactified Jacobian. **58** #16650

(with Kleiman, Steven L.) Foundations of the theory of Fano schemes. **58** #27967

Barton, Charles (with Clemens, C. Herbert) A result on the integral Chow ring of a generic principally polarized complex Abelian variety of dimension four. **56** #5552

Bloch, Spencer Semi-regularity and deRham cohomology. **48** #3960

Torsion algebraic cycles, K_2 , and Brauer groups of function fields. **52** #3150

Borovskii, Ju. E. A morphism that separates noncongruent points of a parametrizing prescheme of a flat family of subschemes. I, II. (Russian) **51** #496

Briançon, Joël Description de $\text{Hilb}^n/\mathbb{C}\{x, y\}$. **56** #15637

Clemens, C. Herbert See **Barton, Charles**, **56** #5552

Ellingsrud, Geir Sur le schéma de Hilbert des variétés de codimension 2 dans \mathbb{P}^n à cône de Cohen-Macaulay. **52** #13831

El Zein, Fouad Classe fondamentale d'un cycle. **51** #3170

Fogarty, John Algebraic families on an algebraic surface. II. The Picard scheme of the punctual Hilbert scheme. **49** #293

Fulton, William Rational equivalence on singular varieties. **53** #8060

Gordeckii, L. R. The group $F^2K(X)$ is a birational invariant of a surface. (Russian) **46** #174

Iarrobino, Anthony A. Punctual Hilbert schemes. **46** #7235

Reducibility of the families of 0-dimensional schemes on a variety. **46** #170

The number of generic singularities. **49** #10693

An algebraic fibre bundle over \mathbb{P}_1 that is not a vector bundle. **49** #5009

Punctual Hilbert schemes. **58** #5667

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Kleiman, Steven L. See **Altman, Allen B.**, **53** #423; **Altman, Allen B.**; et al., **58** #16650; **Altman, Allen B.**, **58** #27967 and **Roberts, Joel L.**, **52** #3154

Laksov, Dan Algebraic cycles on Grassmann varieties. **47** #6694

Lindner, Martin Stratifizierung im Hilbertschema. **58** #16651

Roberts, Joel L. Chow's moving lemma. **52** #3154

Seidenberg, Abraham On the Chow form. **51** #12842

Tanaka, Tatsuji On the Chow-ring $C(\tilde{X})$ associated to a blowing-up \tilde{X} of a variety X with center at a point. **49** #2727

Secondary classifications:

Allibert, Daniel (with Maltiniotis, Georges) Groupe fondamental du complémentaire d'une courbe à points doubles ordinaires. **(52** #3170 (EA 53))

Bartel, Daniel Cycles dépendant analytiquement d'un paramètre. **(56** #678)

Beltrametti, Mauro Una osservazione sulle varietà razionali normali. (English summary) **(50** #7178)

Una osservazione sulle varietà razionali normali. (English summary) **(52** #13868)

Bloch, Spencer K_2 and algebraic cycles. **(49** #7260)

Borovskii, Ju. E. A certain system of invariants that separates noncongruent algebraic varieties in a Klein space. (Russian) **(54** #315)

Coates, John (with Wiles, A.) Explicit reciprocity laws. **(57** #327)

Kleiman, Steven L. Completeness of the characteristic system. **(50** #9865)

Knudsen, Finn (with Mumford, David) The projectivity of the moduli space of stable curves. I. Preliminaries on "det" and "Div". **(55** #10465)

Maltiniotis, Georges See **Allibert, Daniel**, **(52** #3170 (EA 53))

Mumford, David See **Knudsen, Finn**, **(55** #10465)

Popp, Herbert Stratifikation von Quotientenmannigfaltigkeiten (in Charakteristik 0) und insbesondere der Modulmannigfaltigkeiten für Kurven. **(46** #180)

Verdier, Jean-Louis Classe d'homologie associée à un cycle. **(56** #5933)

Wiles, A. See **Coates, John**, **(57** #327)

14C10 Equivalence relations

Alibert, Daniel Lemme de déplacement de Chow. **55** #2887

Bloch, Spencer Algebraic K -theory and algebraic geometry. **57** #9698

K_2 and algebraic cycles. **49** #7260

An example in the theory of algebraic cycles. **58** #665

Collino, Alberto Poincaré's formulas and hyperelliptic curves. (Italian summary) **54** #5231

Donald, John D. Non-openness and non-equidimensionality in algebraic quotients. **46** #5329

(Flexor-Mangeney, Marguerite) See **Samuel, Pierre**, **53** #2941

Fulton, William A Hirzebruch-Riemann-Roch formula for analytic spaces and non-projective algebraic varieties. **57** #317

Gersten, Stephen M. Some exact sequences in the higher K -theory of rings. **50** #7138

K -theory and algebraic cycles. **55** #10451

Grayson, Daniel R. Products in K -theory and intersecting algebraic cycles. **58** #10890

Projections, cycles, and algebraic K -theory. **58** #10891

Hartshorne, Robin Equivalence relations on algebraic cycles and subvarieties of small codimension. **51** #5592

Hornell, James A note on the relationship between Weil and Cartier divisors. **51** #5593

Ischebeck, Friedrich Über die algebraische Äquivalenz von Divisoren auf unirationalen Varietäten. **53** #13218

Kii, K. I. A generalization of Griffiths' theorem on algebraic cycles. (Russian) **52** #3151

Kleiman, Steven L. Finiteness theorems for algebraic cycles. **54** #12765

Motives. **52** #3152

Finiteness theorems for algebraic cycles. **52** #3153

Martin-Deschamps, Mireille Morphisme de Gysin et spécialisation du groupe de Chow. Transformations naturelles du foncteur de Chow. **55** #2888

Murre, Jacob P. Algebraic equivalence modulo rational equivalence on a cubic threefold. **50** #4576a

Reduction of the proof of the non-rationality of a non-singular cubic threefold to a result of Mumford. **50** #4576b

(Risler, Jean-Jacques) See **Samuel, Pierre**, **53** #2941

Samuel, Pierre Séminaire sur l'Equivalence Rationnelle. **53** #2941

Secondary classifications:

Arakelov, S. Ju. Theory of intersections on the arithmetic surface. **(57** #6031)

Baum, Paul (with Fulton, William; MacPherson, Robert D.) Riemann-Roch for singular varieties. **(54** #317)

Bel'skii, A. A. Rational points of intersection of two hyperquadrics. (Russian) **(46** #3517)

Admissible equivalences on cubic hypersurfaces. (Russian) **(50** #4587)

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- Zucker, Steven M. Intermediate Jacobians and the Hodge conjecture for cubic fourfolds. **56** #3008
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Théorie de Hodge à coefficients dégénérants. (English summary) **58** #10897

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- (Adams, John) See Griffiths, Phillip, (**50** #7596)
- Barth, Wolf (with Larsen, Mogens Esrom) On the homotopy groups of complex projective algebraic manifolds. (**49** #5395)
- Beauville, Arnaud Variétés de Prym et jacobiniennes intermédiaires. (**57** #12532)
- Bloch, Spencer Semi-regularity and deRham cohomology. (**48** #3960)
- Brylinski, Jean-Luc Cohomology of a type of affine hypersurfaces. (**58** #678)
- Cattani, Eduardo H. (with Kaplan, Aroldo G.) Extension of period mappings for Hodge structures of weight two. (**55** #5904)
- Cornalba, Maurizio (with Griffiths, Phillip) Analytic cycles and vector bundles on non-compact algebraic varieties. (**51** #3505)
- Del Centina, Andrea (with Zappa, Paolo) Alcune rappresentazioni del semipiano di Siegel. (English summary) (**54** #10687)
- Deligne, Pierre ★Équations différentielles à points singuliers réguliers. (**54** #5232)
- Donagi, Ron Y. On the geometry of Grassmannians. (**58** #28012)
- Fujita, Takao On some new invariants of polarized manifolds. (**51** #8110 (EA **52**))
- Griffiths, Phillip (with Schmid, W.) Locally homogeneous complex manifolds. (Russian) (**52** #8509)
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- Griffiths, Phillip A. Variations on a theorem of Abel. (**55** #8036)
- Hartshorne, Robin Varieties of small codimension in projective space. (**52** #5688)
- Harvey, Reese (with Knapp, Anthony W.) Positive (p, p) forms, Wirtinger's inequality, and currents. (**50** #7573 (EA **50**))
- Hattori, Akio (with Kimura, Toshihisa) On the Euler integral representations of hypergeometric functions in several variables. (**49** #10904)
- Hitchin, Nigel Harmonic spinors. (**50** #11332)
- Itaka, Shigeru Projective manifolds whose universal covering manifolds are C^3 . (**51** #3502)
- Kaplan, Aroldo G. See Cattani, Eduardo H., (**55** #5904)
- Katz, Nicholas M. Algebraic solutions of differential equations (p -curvature and the Hodge filtration). (**49** #2728)
- Kimura, Toshihisa See Hattori, Akio, (**49** #10904)
- King, James R. See Griffiths, Phillip, (**55** #721)
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- Krebs, Hélène Intégrales de formes différentielles d'' -fermées sur les cycles analytiques compacts de certains ouverts de $P_n(C)$. (English summary) (**52** #3590)
- Larsen, Mogens Esrom See Barth, Wolf, (**49** #5395)

- Le Potier, J. Fibrés vectoriels et cycles d'ordre fini sur une variété algébrique non compacte (d'après M. Cornalba et P. Griffiths). (**56** #12339)
- Lieberman, David I. (with Serenesi, E.) Semicontinuity of Kodaira dimension. (**51** #8481)
- Matsushima, Yozo (with Stoll, Wilhelm) Ample vector bundles on compact complex spaces. (**50** #13618)
- Messing, William Short sketch of Deligne's proof of the hard Lefschetz theorem. (**57** #12507)
- Morrow, James A. (with Rossi, H.) Submanifolds of P^n with splitting normal bundle sequence are linear. (**58** #11526)
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- Prakash, Nirmala Period matrix domains of a quasi-symplectic manifold. (**57** #12916)
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- Engber, Michael A criterion for divisoriality. **47** #5002
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- Anderson, Michael P. On some arithmetic properties of odd dimensional complete intersections. (**55** #2914)
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- Barlet, Daniel Espace des cycles et d'' -cohomologie de $P_n - P_1$. (**51** #5970)
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- Gotzmann, Gerd Eine Bedingung für die Flachheit und das Hilbertpolynom eines graduierten Ringes. (**58** #641)
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- Sekiuchi, Tsutomu On the l -number of l -cycles on an abelian variety. (**50** #334)
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- Aomoto, Kazuhiko Sur la forme de connexion du type régulier dans un espace projectif complexe. **54** #10258
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- (with Levitt, Antonius) Sur les connexions à singularités régulières dans le cas de plusieurs variables. **57** #321
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- A geometric study of the monodromy of complex analytic surfaces. **56** #8563
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- Levitt, William** On the nilpotence of the hypergeometric equation. **46** #171
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- On the degenerate fibres in families of curves (known results and open problems). **58** #5671
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- A study of the Riemann surfaces of certain double integrals that depend on one complex parameter. II. The Riemann surface of the element $I_r(t)$. (Russian) **57** #3125b
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- Schmid, W.** Variation of Hodge structure: the singularities of the period mapping. **52** #3157
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- Ueno, Kenji** Families of curves of genus two. **52** #5667b
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- Levitt, Ju. R.** Manin homomorphisms for elliptic curves over a field of formal power series. (Russian) **47** #6697
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- Levitt, A. B.** Algebraic fiberings with arbitrary singularities in the fibers. (Russian) **55** #2895
- Algebraic fiberings with isolated singularities in the fibers. (Russian) **55** #8037
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- Zucker, Steven M.** Generalized intermediate Jacobians and the theorem on normal functions. **54** #313
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- A'Campo, Norbert** Sur la monodromie des singularités isolées d'hypersurfaces complexes. (**49** #3201)
- Le nombre de Lefschetz d'une monodromie. (**47** #8903)
- La fonction zêta d'une monodromie. (**51** #8106)
- Le groupe de monodromie du déploiement des singularités isolées de courbes planes. I. (**51** #13282)
- Altman, Allen B.** (with Kleiman, Steven L.) Compactifying the Jacobian. (**55** #2917)
- Aomoto, Kazuhiko** Equations aux différences linéaires et les intégrales des fonctions multiformes. I. Théorème d'existence. (**58** #22688a)
- Équations aux différences linéaires et les intégrales des fonctions multiformes. II. Évanouissement des hypercohomologies et exemples. (**58** #22688b)
- Les équations aux différences linéaires et les intégrales des fonctions multiformes. (**58** #22688c)
- Bannai, Eiichi** See Takano, Kyoichi, (**54** #10720)
- Bey, Cevdet Haş** Sur l'irréductibilité de la monodromie locale. (**47** #3388)
- Bolibrub, A. A.** The fundamental matrix of a Pfaffian system of Fuchs type. (Russian) (**58** #18517)
- Pfaffian systems of Fuchs type. (Russian) (**57** #3491)
- Brieskorn, E.** Vue d'ensemble sur les problèmes de monodromie. (**54** #5227)
- (with Greuel, Gert-Martin) Singularities of complete intersections. (**51** #3515)
- Singularitäten. (**55** #3306)
- Cattani, Eduardo H.** (with Kaplan, Aroldo G.) Extension of period mappings for Hodge structures of weight two. (**55** #5904)
- Cornalba, Maurizio** (with Griffiths, Phillip) Some transcendental aspects of algebraic geometry. (**54** #7459)
- Dolgachev, I. V.** The Euler characteristic of a family of algebraic varieties. (Russian) (**48** #6116)
- Durfee, Alan H.** The monodromy of a degenerating family of curves. (**51** #10678)
- Dwork, Bernard** Normalized period matrices. I. Plane curves. (**53** #442a)
- Bessel functions as p -adic functions of the argument. (**52** #8124)
- Gaeta, Federico** Geometrical theory of the vanishing of theta-functions for complex algebraic curves. II. (Italian summary) (**56** #8582)
- Gérard, Raymond** Mesure de l'irrégularité en un point singulier d'un système différentiel. (**57** #16771)
- On holomorphic solutions of certain kind of Pfaffian systems with singularities. (**58** #7679)
- Giusti, Marc** Sur les singularités isolées d'intersections complètes quasi-homogènes. (English summary) (**57** #702)
- Greuel, Gert-Martin** See Brieskorn, E., (**51** #3515)
- Griffiths, Phillip** See Cornalba, Maurizio, (**54** #7459)
- Grima, Marie-Claire** La monodromie rationnelle ne détermine pas la topologie d'une hypersurface complexe. (**50** #13592)
- Hamm, Helmut A.** Ein Beispiel zur Berechnung der Picard-Lefschetz-Monodromie für nichtisolierte Hyperflächensingularitäten. (**53** #862)
- Remarks on asymptotic integrals, the polynomial of I. N. Bernstein and the Picard-Lefschetz monodromy. (**58** #28653)
- Hejhal, Dennis A.** Monodromy groups and linearly polymorphic functions. (**57** #3380)
- The variational theory of linearly polymorphic functions. (**56** #3286)
- Hovanskii, A. G.** Newton polyhedra, and toroidal varieties. (Russian) (**57** #16291)
- Kaplan, Aroldo G.** See Cattani, Eduardo H., (**55** #5904)
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- Köpf, Ursula** Über eigentliche Familien algebraischer Varietäten über affinoiden Räumen. (**54** #10657)
- Kušnirenko, A. G.** The Newton polygon, and Milnor numbers. (Russian) (**53** #863)
- Lamotke, Klaus** Die Homologie isolierter Singularitäten. (**52** #11104)
- Lazzeri, Fulvio** Some remarks on the Picard-Lefschetz monodromy. (**51** #10680)
- Lê Dũng Tráng** (with Saito, Kyoji) La constance du nombre de Milnor donne des bonnes stratifications. (**50** #2556)
- Une application d'un théorème d'A'Campo à l'équisingularité. (**48** #4347)
- ★Three lectures on local monodromy. (**51** #8458)
- Computation of the Milnor number of an isolated singularity of a complete intersection. (Russian) (**50** #2557)
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- Lefschetz, Solomon** ★Applications of algebraic topology. (**58** #13056)
- Levitt, Antonius** Jordan decomposition for a class of singular differential operators. (**58** #17962)
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- Oka, Mutsuo** Local deformation of polynomials with isolated singularities. (**53** #864)
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- Sommese, Andrew John** Some algebraic properties of the image of the period mapping. (**48** #2430)
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Lipman, Joseph Picard schemes of formal schemes; application to rings with discrete divisor class group. (50 #7140)
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- Mostowski, Tadeusz** Analytic applications of decidability theorems. (Polish) (56 #5518)
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- Desale, Usha V.** (with Ramanan, S.) Classification of vector bundles of rank 2 on hyperelliptic curves. (55 #2906)
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- Freitag, Eberhard Singularitäten von Modulmannigfaltigkeiten und Körper automorpher Funktionen. (55 #12959)
- Gieseker, David Stable vector bundles and the Frobenius morphism. (48 #3963)
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- Grosche, Jürgen Über die Fundamentalgruppen von Quotientenräumen Siegelscher und Hilbert-Siegelscher Modulgruppen. (56 #3365)
- Haboush, William J. Reductive groups are geometrically reductive. (52 #3179)
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- Hadžiev, Dž. The integral rational basis in algebras of invariants of irreducible representations of the rotation group of three-dimensional space. (Russian) (50 #2352)
- Hammond, William F. (with Hirzebruch, F.) L -series, modular imbeddings, and signatures. (51 #10238)
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- Hochster, Melvin (with Eagon, John A.) Cohen-Macaulay rings, invariant theory, and the generic perfection of determinantal loci. (46 #1787)
- Horikawa, Eiji On the periods of Enriques surfaces. II. (58 #687)
- Kalman, Rudolph E. See Hazewinkel, Michiel, (58 #33222)
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- Knudsen, Finn See Kempf, George R.; et al., (49 #299)
- Kurke, Herbert See Fitzner, Heinz-Jörg; et al., (58 #22056)
- Langton, Stacy G. Valuative criteria for families of vector bundles on algebraic varieties. (51 #510)
- Lieberman, David I. (with Wilsker, R.; Peters, C. A. M.) A theorem of local-Torelli type. (58 #17225)
- Lindner, Martin Über die Mannigfaltigkeit ebener Kurven mit Singularitäten. (56 #3022)
Über die Moduln algebraischer Flächen. (English summary) (56 #5569)
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- Martin, Clyde F. (with Hermann, Robert) Applications of algebraic geometry to systems theory. VI. Infinite dimensional linear systems and properties of analytic functions. (58 #26209d)
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- Mustafin, G. A. p -adic Hopf varieties. (Russian) (58 #10916)
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- Namikawa, Yukihiko (with Ueno, Kenji) On geometrical classification of fibers in pencils of curves of genus two. (47 #8537)
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- Narasimhan, M. S. Geometry of moduli spaces of vector bundles. (55 #2910)
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- Norton, V. Alan Nonseparation in the moduli of complex vector bundles. (58 #22686)
- Oort, Frans Families of subgroup schemes of formal groups. (58 #5694)
- Peters, C. A. M. The local Torelli theorem. I. Complete intersections. (56 #357a (E 56 #357b))
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- Pfister, Gerhard See Fitzner, Heinz-Jörg; et al., (58 #22056)
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- Roczen, Marko See Fitzner, Heinz-Jörg; et al., (58 #22056)
- Saint-Donat, Bernard See Kempf, George R.; et al., (49 #299)
- Saito, Hiroshi ★Automorphic forms and algebraic extensions of number fields. (53 #10721)
- Schmid, W. Variation of Hodge structure: the singularities of the period map. (52 #3157)
- Semenov, Ju. M. The controllability of the equation $\dot{x} = ux$. (Russian) (58 #20665)
- Seshadri, C. S. Quotient spaces modulo reductive algebraic groups. (46 #9044)
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- Shah, Jayant Surjectivity of the period map in the case of quartic surfaces and double planes. (54 #5246)
- Shatz, Stephen S. Degeneration and specialization in algebraic families of vector bundles. (53 #18083)
- Švarcman, O. V. Simple connectedness of a factor space of the modular Hilbert group. (Russian) (52 #13857)
- Tankeev, S. G. A global theory of moduli for algebraic surfaces of general type. (Russian) (49 #2754)
- Tjurin, A. N. Geometry of moduli of vector bundles. (Russian) (53 #8064)
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- Griffiths, Phillip On Abel's differential equations. (58 #655)
- Magid, Andy R. The Picard sequence of a fibration. (55 #2890)
- Morikawa, Hisasi On projective differential equations on complex analytic manifold. (46 #8257)

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- Bilo, J. An involutory birational transformation of order five. (Dutch. English summary) 46 #9042
- Brodmann, Markus Eine Bemerkung zur Theorie der \mathfrak{P} -Ringe. 58 #10903
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Secondary classifications:

- Filippov, N. D.** On Noether's theorem. (Russian) (**48** #295)
- Godeaux, Lucien** Surfaces algébriques régulières possédant une courbe canonique d'ordre zéro et quatre points doubles coniques. (**47** #6711)
- Itaka, Shigeru** Logarithmic forms of algebraic varieties. (**55** #2893)
- Iskovskih, V. A.** Birational automorphisms of three-dimensional algebraic varieties. (Russian) (**56** #15657)
- Kempf, George R.** (with Knudsen, Finn; Mumford, David; Saint-Donat, Bernard) ★Toroidal embeddings. I. (**49** #299)
- Knudsen, Finn** See Kempf, George R.; et al., (**49** #299)
- Lascu, Alexandru** Una certa corrispondenza algebrica e le sue applicazioni alla teoria delle classi caratteristiche. (**58** #5668)
- Mariyama, Masaki** On a family of algebraic vector bundles. (**50** #13035)
- Metelka, Josef** Sur les variétés de base simples des transformations de Cremona. (Russian and Czech summaries) (**46** #9054)
- Mumford, David** See Kempf, George R.; et al., (**49** #299)
- Russell, Peter** Good and bad field generators. (**56** #2977)
- Saint-Donat, Bernard** See Kempf, George R.; et al., (**49** #299)
- Shannon, David L.** Monoidal transforms of regular local rings. (**48** #8492)
- Tefova, E. L.** Analytic calculation of the coordinates of lines under a skew mapping in P_4 . (Russian) (**55** #2945)
- Vogel, Wolfgang** Schnitte von perfekten Mannigfaltigkeiten. (**54** #5259)
- Webster, Sidney M.** Some birational invariants for algebraic real hypersurfaces. (**58** #1232)
- Zagorskii, A. A.** Three-dimensional conic bundles. (Russian) (**57** #3139)
- Zeuge, Jörn** Eine geometrische Kennzeichnung der Mannigfaltigkeiten von Segre und Veronese und eine damit zusammenhängende ausgezeichnete Transformation zwischen gewissen projektiven Räumen. (Italian summary) (**51** #5601)

14E10 General correspondences

- Abellanas, Pedro** Algebraic correspondences over a Noetherian ring. **50** #325
- Baba, Kiyoshi** See Nakai, Yoshikazu, **58** #5678
- Baldisserré, Natalia** Ricerche locali sulle trasformazioni puntuali fra tre piani affini. **51** #12849
- Becker, Joseph A.** Exposé on a conjecture of Tougeron. (French summary) **58** #10904
- Bonardi, Maria Teresa** Estensioni di una trasformazione razionale tra due varietà proiettive a trasformazioni biregolari tra spazi che le contengono. (English summary) **57** #16300
- Botez, Mihail Șt.** Remarque sur une correspondance particulière. **47** #5006
- Bujanda Jauregui, M. Paz** On algebraic correspondences. (Spanish) **49** #7262
- Calero Rosillo, Gonzalo** Order of the general hyperplane section of an irreducible algebraic variety. (Spanish) **49** #8989
- Algebraic correspondences between two irreducible varieties. (Spanish) **51** #503
- ★Correspondencias algebraicas finitas. (Spanish) [Finite algebraic correspondences] **53** #5586
- Cavaleri D'Oro, Luigi** Sulle coppie di curve omologhe contenenti elementi totalmente caratteristici di una trasformazione puntuale fra spazi euclidei. **52** #13836
- Čegodaev, A. I.** Classes of Cremona transformations that can be generated by stereographic and skew transformations of surfaces of orders three and two. (Russian) **51** #5597
- Erastov, K. D.** Strophoidal transformations of a plane, and conchoidal involutions. (Russian) **52** #13837
- Gerasimova, I. S.** The problem of obtaining Cremona transformations of type $T_{3,3}$ in projective three-space by an oblique projection in four-space. (Russian) **52** #403
- A certain method of obtaining cubic transformations in P_3 . (Russian) **52** #13838
- Godeaux, Lucien** Variétés algébriques en relation avec les variétés de Veronese et de Segre. **50** #4583
- Grigorov, H.** (with Peklić, V. A.) Cremona correspondences between two planes that are the result of n successive projections by means of line congruences. (Bulgarian. Russian and German summaries) **53** #5587
- Guidotti, Laura** Sulle corrispondenze degeneri fra spazi proiettivi e le loro varietà rappresentative. **51** #5598
- Hanturina, S. A.** A special birational transformation of the lines in P_4 . (Russian) **54** #10262
- Hirschowitz, André** Le groupe de Cremona d'après Demazure. **54** #5234
- Konakbaev, K. K.** Central cubic Cremona involutions. (Russian) **58** #22066
- Kotli, O. A.** Classification of projective correspondences between two sheaves of lines or planes in P^n . (Russian) **57** #3128
- Lane, D. R.** Fixed points of affine Cremona transformations of the plane over an

- algebraically closed field. **52** #3161
- Lewis, Donald J.** Invariant sets of morphisms on projective and affine number spaces. **51** #12850
- Manna Ciarrapico, Lucia** Ancora sulle trasformazioni birazionali applicate ad una σ_2^2 . (English summary) **54** #5235
- Martini, Giulia** Sulle tricorrispondenze fra un piano proiettivo e due rette proiettive e loro rappresentazione sulla varietà di Segre. (English summary) **53** #5588
- Molinari, Loris** Sulla corrispondenza K -linearizzante di una trasformazione puntuale fra due spazi proiettivi ordinari. (English summary) **51** #3173
- Nagata, Masayoshi** ★On automorphism group of $k[x, y]$. **49** #2731
- Nakai, Yoshikazu** (with Baba, Kiyoshi) A generalization of Magnus' theorem. **58** #5678
- Pačev, H. S.** (with Peklić, V. A.) On the theory of quadratic Cremona transformations in four-dimensional space. (Bulgarian. Russian and English summaries) **53** #5589
- Paskalev, G.** A generalized inversion with a nondegenerate fundamental curve. (Bulgarian. Russian and French summaries) **58** #27978
- Peklić, V. A.** See Grigorov, H., **53** #5587 and Pačev, H. S., **53** #5589
- Ponarin, Ja. P.** The Cremona transformations of the plane that arises in connection with the projective generalization of Schlämilch's theorem. (Russian) **51** #5599
- Potoskuev, E. V.** A certain method of constructing a plane model of three-dimension projective space. (Russian) **52** #404
- A certain third order involution of space. (Russian) **53** #431
- Roanes Macias, Eugenio** Correspondences between tangent spaces induced by local algebraic correspondences of algebraic surfaces. **51** #12851
- ★Correspondencias entre espacios tangentes inducidas por correspondencias algebraicas locales de superficies. (Spanish) [Correspondences between tangent spaces that are induced by local algebraic correspondences of surfaces] **52** #5670
- Number of components of the image of a maximal ideal in an algebraic correspondence between surfaces. (Spanish) **55** #5630a
- Number of components of the image of a maximal ideal in an algebraic correspondence between surfaces. II. (Spanish) **55** #5630b
- Rollero, Aldo** Considerazioni sulle trasformazioni puntuali fra due S_3 . (English and French summaries) **51** #504
- Su alcune rette relative ad una trasformazione puntuale fra due S_3 . (English summary) **54** #2654
- Sjarova, A. B.** An involution of the third power in the space P_3 originated by the straight line congruence of the second power, fourth class. (Bulgarian. Russian and English summaries) **58** #27979
- Swan, Richard G.** K -theory and algebraic correspondences. **49** #8990
- Villa, Mario** Sopra certe pubblicazioni sulle trasformazioni puntuali. **50** #13032
- Determinazione delle omografie fra tre piani proiettivi. (English summary) **47** #3392
- Sopra una classe di varietà algebriche. **55** #5631
- Vinogradov, V. L.** A stratifiable involutory Cremona transformation of type T_{1er} . (Russian) **53** #432
- A Cremona involutory space transformation that is generated by a unicursal curve and by an algebraic surface of special form. (Russian) **53** #433
- Vituskin, A. G.** On polynomial transformations of C^n . **51** #5600 (EA **52**)

Secondary classifications:

- Abhyankar, Shreeram Shankar** (with Moh, Tzuong Tsieng) Embeddings of the line in the plane. (**52** #407)
- (with Moh, Tzuong Tsieng) On analytic independence. (**54** #2647)
- Babbage, D. W.** "Canonical forms for general polynomials" (J. London Math. Soc. (2) **10** (1975), no. 3, 271–280)—a note on a paper by Stefano Guazzzone. (**54** #5264)
- Bhatwadekar, S. M.** A note on strongly invariant rings. (**57** #9692)
- Brauer, Heinrich** Abbildungsmethoden der konstruktiven Geometrie. (**54** #3576)
- Calero Rosillo, Gonzalo** ★Correspondencias algebraicas simples en el espacio afín. (Spanish) [Simple algebraic correspondences in affine space] (**49** #274)
- On one case of the dimension of prime ideals in simple algebraic extensions of finite integral domains. (Spanish) (**51** #5571a)
- Fundamental ideals in simple algebraic correspondences of affine space. (Spanish) (**51** #5571c)
- Simple algebraic correspondences in affine space. I, II, III. (Spanish. English summary) (**51** #5571b)
- Guazzzone, Stefano** Canonical forms for general polynomials. (**52** #3183 (E **54** #5264))
- See also Babbage, D. W., (**54** #5264)
- Gunning, Robert C.** ★Lectures on complex analytic varieties: finite analytic mappings. (**50** #7570)
- Hoyt, William L.** On the moving lemma for rational equivalence. (**47** #6695)
- Kazakova, G. G.** A certain representation of projective four-space on the plane, and its connection with Lie circular transformations. (Russian) (**54** #326)
- Moh, Tzuong Tsieng** See Abhyankar, Shreeram Shankar, (**52** #407) and Abhyankar, Shreeram Shankar, (**54** #2647)
- Nagata, Masayoshi** ★Polynomial rings and affine spaces. (**58** #656)
- Šafarevič, I. R.** On some infinite-dimensional groups. (**58** #5697)
- Sermenev, A. M.** Motif of an Abelian variety. (Russian) (**49** #304)
- Villa, Mario** Un'omografia fra più di due spazi proiettivi. (English summary) (**48** #2151)

14E15 Global theory of singularities, resolution

- Arima, Satoshi** (with Hidaka, Fumio) Contractable sets on projective varieties. **56** #15643
- Bădescu, Lucian** Sur certaines singularités des variétés algébriques. **53** #10800
- Contractions rationnelles des variétés algébriques. **51** #10335 (E **55** #2883) (E **54** #7452)
- (with Fiorentini, Mario) Criteri di semifattorialità e di fattorialità per gli anelli locali con applicazioni geometriche. (English summary) **54** #7465

- Beltrametti, Mauro** Some remarks about the contact of hypersurfaces along multiple subvarieties. (Italian summary) **54** #12773
 Alcune osservazioni intorno al contatto di ipersuperficie lungo sottovarietà multiple. **52** #10729
- Bennett, Bruce** Normalization theorems for certain modular discriminantal loci. **53** #2947
- Berman, David** Simplicity of a vector space of forms: finiteness of the number of complete Hilbert functions. **56** #8572
- Danilov, V. I.** Polyhedra of schemes and algebraic varieties. (Russian) **56** #359
- Florentini, Mario** (with Lascu, Alexandru) Un teorema sulle trasformazioni monoidali di spazi algebrici. **51** #505
 See also **Bădescu, Lucian**, **54** #7465
- Fontana, Marco** (with Maroscia, Paolo) Sul grafo di alcune classi di applicazioni razionali. (English summary) **55** #8039
- Giraud, Jean** Contact maximal en caractéristique positive. **52** #5671
- Godeaux, Lucien** Sur les points de diramation isolés des surfaces multiples. **47** #5007
 Sur les points de diramation isolés d'une variété multiple à trois dimensions. **47** #6717
 Recherches sur la structure des points de diramation d'une surface algébrique multiple. II. **47** #8538
 Recherches sur la structure des points de diramation d'une surface algébrique multiple. III. **47** #8539
 Recherches sur la structure des points de diramation d'une surface algébrique multiple. IV. **47** #8540
- Gonzalez Springberg, Gerardo** Transformé de Nash et éventail de dimension 2. (English summary) **55** #2903
- Hartshorne, Robin** (with Rees, Elmer; Thomas, Emery) Nonsmoothing of algebraic cycles on Grassmann varieties. **50** #9870
 Topological conditions for smoothing algebraic singularities. **50** #2170
- Herrmann, Manfred** (with Schmidt, Rolf) Zur Transitivität der normalen Flachheit. **52** #405
- Hersberg, J.** A sequence of multiple points on an algebraic variety which gives rise to a valuation ring. **47** #1808
 Sequence of singularities on algebraic threefolds and on varieties of arbitrary dimension. **48** #293
- Hidaka, Fumio** See **Arima, Satoshi**, **56** #15643
- Hironaka, Heisuke** Certain numerical characters of singularities. **45** #1913
 Schemes, etc. **52** #13839
 Idealistic exponents of singularity. **58** #16661
- Hochster, Melvin** The Zariski-Lipman conjecture for homogeneous complete intersections. **50** #13033
- Holme, Audun** Projection of non-singular projective varieties. **48** #8501
 (Hovanskii, A. G.) See **Mather, John N.**, **52** #5673
- Kempf, George R.** (with Knudsen, Finn; Mumford, David; Saint-Donat, Bernard) ★Toroidal embeddings. I. **49** #299
- Knudsen, Finn** See **Kempf, George R.**; et al., **49** #299
- Kušniренко, A. G.** Newton polyhedra and Bezout's theorem. (Russian) **54** #10263
- Laksov, Dan** Some enumerative properties of secants to non-singular projective schemes. **55** #10456 (EA 55/56)
- Langmann, Klaus** Japanische und ausgezeichnete lokale Ringe. **57** #16301
- Lascu, Alexandru** See **Florentini, Mario**, **51** #505
- Lê Dũng Tráng** Sur les noeuds algébriques. **47** #8541
- Lipman, Joseph** Introduction to resolution of singularities. **52** #10730
- Maroscia, Paolo** See **Fontana, Marco**, **55** #8039
- Mather, John N.** Stable map-germs and algebraic geometry. (Russian) **52** #5673
- Mazur, Joseph** Conditions for the existence of contractions in the category of algebraic spaces. **52** #8123
- Miyake, Katsuya** See **Oda, Tadao**, **52** #406
- Mizutani, Hiroyuki** Hironaka's additive group schemes. **51** #506
- Mumford, David** See **Kempf, George R.**; et al., **49** #299
- Nebelmann, Dieter** Monoidale Oberränge und eine Anwendung auf die Koeffizienten des Hilbert-Samuelschen Polynoms. **52** #3162
- Oda, Tadao** Hironaka's additive group scheme. **57** #12514
 (with Miyake, Katsuya) Almost homogeneous algebraic varieties under algebraic torus action. **52** #406
- Orlik, Peter** (with Wagreich, Philip) Singularities of algebraic surfaces with C^* action. **45** #1914
 (with Wagreich, Philip) Equivariant resolution of singularities with C^* action. **52** #13840
- Pomerol, Marie-Jeanne** Sur la strate de Samuel du sommet d'un cône en caractéristique positive. **56** #360
- Ratcliff, Louis J., Jr.** On the Hilbert function and multiplicity in local rings. **51** #8111
- Rees, Elmer** See **Hartshorne, Robin**; et al., **50** #9870
- Roberts, Joel L.** Singularity subschemes and generic projections. **46** #175 (EA 47)
 The variation of singular cycles in an algebraic family of morphisms. **46** #5326
- Roczen, Marko** Henselsche Äquivalenz von Singularitäten. **56** #8573
- Romo Santos, Concepción** ★Resolución de singularidades de variedades algebraicas sobre un cuerpo de característica cualquiera. (Spanish) [Resolution of singularities of algebroid varieties over a field of arbitrary characteristic] **56** #361
- Rothaus, Christel** Nicht ausgezeichnete, universell japanische Ringe. **55** #353
- Russell, Peter** On Hironaka's additive groups with points in projective space. **57** #12515
- Saint-Donat, Bernard** See **Kempf, George R.**; et al., **49** #299
- Saito, Kyoji** Einfach-elliptische Singularitäten. **50** #7147
- Sánchez-Giralda, Tomás** ★Teoría de singularidades de superficies algebraicas emersas. (Spanish) [Theory of singularities of embedded algebroid surfaces] **54** #7466
 Caractérisation des variétés permises d'une hypersurface algébrique. (English summary) **58** #27980
- Schaps, Mary** Birational morphisms factorizable by two monoidal transformations. **54** #7467
- Schmidt, Rolf** See **Herrmann, Manfred**, **52** #405
- Sebastiani, Marcos** Complément à "Quelques critères topologiques de simplicité pour un certain type de variétés algébriques". (Spanish summary) **46** #5327
- Seydl, Hamet** À propos du critère jacobien de lissité formelle d'après Grothendieck. **51** #507
- Singh, Balwant** Effect of a permissible blowing-up on the local Hilbert function. **50** #4584
- Souville, Jean** Théorie différentielle du contact maximal en inégale caractéristique. **58** #27981
- Speder, Jean-Paul** Équisingularité et conditions de Whitney. **56** #3015
- Stoia, Manuela** Reduced and normal points of a flat morphism. **54** #10264
- Takahashi, Shuichi** A non-standard treatment of infinitely near points. **55** #5632
- Thomas, Emery** See **Hartshorne, Robin**; et al., **50** #9870
- Valabrega, Paolo** On the excellent property for power series rings over polynomial rings. **51** #12852
 Scioglimenti di singolarità, criteri jacobiani, anelli eccellenti. (English summary) **56** #15644
- Varčenko, A. N.** A theorem on the equisingularity of families of algebraic varieties. (Russian) **45** #263
- Wagreich, Philip** See **Orlik, Peter**, **45** #1914 and **Orlik, Peter**, **52** #13840
- Wahl, Jonathan M.** Vanishing theorems for resolutions of surface singularities. **53** #13225
- Wilson, P. M. H.** On blowing up conductor ideals. **57** #3129
- Secondary classifications:
- Abhyankar, Shreeram Shankar** Historical ramblings in algebraic geometry and related algebra. (53 #5581)
- Altman, Allen B.** (with Kleiman, Steven L.) Correction to: "On the purity of the branch locus". (Compositio Math. **23** (1971), 461-465). (50 #326)
- Bădescu, Lucian** (with Moroianu, Mihnea) Algebraic contractions and complete intersections. (Italian summary) (53 #10820)
- Cossart, Vincent** Sur le polyèdre caractéristique d'une singularité. (55 #5622)
- Dassow, Jürgen** Normalität und Loewy-Invarianten bei monoidalen Transformationen. (50 #296)
 Über das Verhalten der Hilbert-Koeffizienten eines lokalen Ringes bei monoidalen Transformationen. (Russian, English and French summaries) (54 #7453)
- Frumkin, M. A.** A filtration in the three-dimensional Cremona group. (Russian) (48 #6111)
- Fujiki, Akira** On resolutions of cyclic quotient singularities. (52 #6027)
- Gabriëlov, A. M.** Intersection matrices for certain singularities. (Russian) (48 #2418)
- Galbiati, Margherita** (with Tognoli, Alberto) Alcune proprietà delle varietà algebriche reali. (51 #493)
 See also **Lejeune-Jalabert, Monique**; et al., (53 #13224)
- Galbură, Gheorghe** (with Moroianu, Mihnea) Sur les éclatements des variétés algébriques. (54 #309)
- Giraud, Jean** ★Étude locale des singularités. (53 #13213)
- Greco, Silvio** Two theorems on excellent rings. (53 #13207)
- (Gröbner, Wolfgang)** See **Herrmann, Manfred**; et al., (58 #27959)
- Halperin, Miriam P.** Deformations of formal embeddings of schemes. (53 #10799)
- Herrmann, Manfred** (with Vogel, Wolfgang) Zur numerischen Charakterisierung der normalen Flachheit von kohärenten Garben. (57 #3141)
 (with Vogel, Wolfgang) Normale Flachheit und Cohen-Macaulay-Funkte. (57 #6036)
 (with Schmidt, Rolf; Vogel, Wolfgang) ★Theorie der normalen Flachheit. (58 #27959)
- Hesselink, Wim H.** Cohomology and the resolution of the nilpotent variety. (54 #525)
- Hironaka, Heisuke** ★Introduction to the theory of infinitely near singular points. (53 #3349)
- Hirzebruch, F.** The Hilbert modular group for the field $\mathbb{Q}(\sqrt{5})$, and the cubic diagonal surface of Clebsch and Klein. (Russian) (58 #16525)
- Kato, Tomohisa** A note on blowing up of an algebraic cocycle. (58 #6337)
- Kleiman, Steven L.** The enumerative theory of singularities. (58 #27960)
 See also **Altman, Allen B.**, (50 #326)
- Kunz, Ernst** On Noetherian rings of characteristic p . (55 #5612)
- Lascu, Alexandru** (with Scott, D. Bernard) An algebraic correspondence with applications to projective bundles and blowing up Chern classes. (50 #13031)
- Lejeune-Jalabert, Monique** (with Teissier, Bernard) Transversalité, polygone de Newton et installations. (53 #13224)
 Tropismes critiques et normalisation. (57 #6500)
 (with Teissier, Bernard) Normal cones and sheaves of relative jets. (52 #801)
- MacPherson, Robert D.** Les classes caractéristiques et le théorème de Riemann-Roch pour les variétés singulières. (53 #8065)
- (Manin, Ju. I.)** See **Hirzebruch, F.**, (58 #16525)
- Milnor, John W.** (with Orlik, Peter) Isolated singularities defined by weighted homogeneous polynomials. (45 #2757 (E 45 #6057))
- Morita, Shigeyuki** Almost complex manifolds and Hirzebruch invariant for isolated singularities in complex spaces. (50 #13595)
- Moroianu, Mihnea** See **Bădescu, Lucian**, (53 #10820) and **Galbură, Gheorghe**, (54 #309)
- Mount, Kenneth R.** (with Villamayor, Orlando E.) An algebraic construction of the generic singularities of Boardman-Thom. (50 #1283)
- Orlik, Peter** See **Milnor, John W.**, (45 #2757 (E 45 #6057))
- Pinkham, Henry C.** On result of Riemenschneider. (52 #3158)
- Porteous, Ian R.** Simple singularities of maps. (45 #2723)
- Rees, Elmer** (with Thomas, Emery) Cobordism obstructions to deforming isolated singularities. (58 #18475)
- Reul, Manfred** Beiträge zur Multiplizitäten- und Spezialisierungstheorie. I. (54 #7457)
- Satake, Ichirō** On the arithmetic of tube domains (blowing-up of the point at infinity). (48 #8861)

- chmidt, Rolf See Herrmann, Manfred; et al., (58 #27959)
- cott, D. Bernard See Lascu, Alexandru, (50 #13031)
- eroul, Raymond Cohomologie entière et KU-théorie d'un produit symétrique d'une surface de Riemann. (46 #7554)
- eydl, Hamet Sur une note de Matsumura et Nomura. (English summary) (52 #5657)
Un critère jacobien en caractéristique zéro. (52 #5665)
- eder, Jean-Paul L'équisingularité "à la Zariski" implique les conditions de Whitney. (58 #1241)
- pulber, Dorian Observations sur les systèmes localisants réguliers et leur liaison avec la transformée Nagata d'un idéal. (53 #13202)
- teinberg, Robert On the desingularization of the unipotent variety. (55 #3101)
- tückrad, Jürgen Eine Bemerkung über die höheren Hilbertkoeffizienten. (54 #2640)
- teissier, Bernard See Lejeune-Jalabert, Monique, (52 #801) and Lejeune-Jalabert, Monique, (53 #13224)
- thomas, Emery See Rees, Elmer, (58 #18475)
- ognoli, Alberto See Galbiati, Margherita, (51 #493)
- alabrega, Paolo A few theorems on completion of excellent rings. (53 #10790)
- llamayor, Orlando E. See Mount, Kenneth R., (50 #1283)
- ogel, Wolfgang Multiplizitätsbetrachtungen in geringten Räumen. (46 #7238)
See also Herrmann, Manfred, (57 #3141); Herrmann, Manfred, (57 #6036)
and Herrmann, Manfred; et al., (58 #27959)
- amaguchi, Hiroyuki On the defining equations of a certain projective variety. (Japanese) (55 #2902)
- ak, F. L. Deformations of modifications of algebraic spaces. (Russian) (54 #12770)

14E20 Coverings, fundamental group

- Altman, Allen B. (with Kleiman, Steven L.) Correction to: "On the purity of the branch locus" (Compositio Math. 23 (1971), 461-465). 50 #326
- Anantharaman, Sivaramkrishna See Murre, Jacob P., 46 #1794
- Anderson, Michael P. Some finiteness properties of the fundamental group of a smooth variety. 53 #2948
- artin, Michael Wildly ramified $Z/2$ actions in dimension two. 51 #10336
- tryński, M. Forms of the rings $R[X]$ and $R[X, Y]$. 48 #6113
- hiaril, Nadia On the seminormality of finite coverings of a normal scheme. 58 #27982
- pp, Helmut P. Eliminating wild ramification. 48 #294
- reco, Silvio Sul sollevamento dei rivestimenti étale. 52 #13841
Sul sollevamento dei rivestimenti étale. 50 #2171
- rothendieck, A. (with Murre, Jacob P.) ★The tame fundamental group of a formal neighbourhood of a divisor with normal crossings on a scheme. 47 #5000
- hoechsmann, K. (with Shatz, Stephen S.) Norms of finite morphisms. 47 #3393
- itaka, Shigeru On algebraic varieties whose universal covering manifolds are complex affine 3-spaces. I. 53 #13226
- kleiman, Steven L. See Altman, Allen B., 50 #326
- nebusch, Manfred Real closures of algebraic varieties. 58 #16662
- ubota, Kazuji Unramified pairs over a pair. 46 #9045a
Étale pairs over a pair. 46 #9045b
- aquin, Yves A criterion for a point to be geometrically unbranched. 55 #2904
- Magid, Andy R. Fundamental groups of products. 52 #10731
Fundamental, Picard, and class groups of rings of invariants. 53 #10801
- Marot, Jean Sur les anneaux universellement japonais. 53 #2949
- Murre, Jacob P. ★Lectures on an introduction to Grothendieck's theory of the fundamental group. 46 #1794
See also Grothendieck, A., 47 #5000
- Popp, Herbert Introduction to the algebraic theory of fundamental groups. 53 #5590
- Reusch, Bodo Beiträge zur konstruktiven Theorie der Polynomideale. VI.
Veronesische Projektionskurven im S_3 . (Russian and English summaries) 56 #3011
- Shatz, Stephen S. See Hoechsmann, K., 47 #3393

Secondary classifications:

- Cohen, David B. The Hurwitz monodromy group. (52 #8278)
- Fleener, Hubert Reine lokale Ringe der Dimension zwei. (52 #3592)
(Grothendieck, A.) See Revêtements étales et groupe fondamental, (50 #7129)
- Hironaka, Heisuke (with Lejeune-Jalabert, Monique; Teissier, Bernard) Platicateur local en géométrie analytique et aplatissement local. (53 #13636)
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- Nori, Madhav V. On the representations of the fundamental group. (54 #5237)
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- Raynaud, Michèle Théorèmes de Lefschetz en cohomologie des faisceaux cohérents et en cohomologie étale. Application au groupe fondamental. (52 #408)
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- King, Henry C. Approximating submanifolds of real projective space by varieties. 53 #435
- Martin-Deschamps, Mireille Étude des immersions ouvertes de la forme $\text{Proj } S' \rightarrow \text{Proj } S$, S et S' étant deux anneaux gradués. 47 #6699
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- Casas Alvero, Eduardo Concerning the virtual genus of algebraic surfaces. II. (Spanish) (58 #28001)
- Johnson, Kent W. Immersion and embedding of projective varieties. (57 #3120)
- Lascu, Alexandru Sezioni razionali e classi di Segre di un fibrato vettoriale algebrico. (English summary) (50 #4585)
- Manolache, Nicolae Remarks on the contractions along a rational curve. (58 #27962)
- Matsuoka, Tadayuki On an invariant of Veronesean rings. (51 #5588)
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- Nakamura, Iku (with Ueno, Kenji) An addition formula for Kodaira dimensions of analytic fibre bundles whose fibre are Moisëzon manifolds. (48 #575)
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- Tankeev, S. G. Pluricanonical mappings of algebraic surfaces of general type. (Russian) (53 #13234)
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- Gaeta, Federico Dual Jacobians and correspondences (p, p) of valency. I. (Italian summary) (54 #7478)
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- genre supérieur à 2. (English summary) (53 #8070)
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- Atiyah, M. F. (with Rees, Elmer) Vector bundles on projective 3-space. (54 #7870)
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- Bonnard, Geneviève Sur un problème d'algèbre commutative: modules scindants et modules coscindants. (52 #372)
- Cavanaugh, Joseph M. Algebraic vector bundles over the t -hole torus. (51 #14044)
- DeMeyer, Frank (with Knus, Max-Albert) The Brauer group of a real curve. (54 #320)
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- Drinfel'd, V. G. (with Manin, Ju. I.) Self-dual Yang-Mills fields over a sphere. (Russian) (58 #18442)
- Errand, Daniel Courbes gauches et fibrés de rang 2. (English summary) (52 #422 (EA 53))
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- Houzel, Christian Déformation de fibres principaux (d'après P. Deligne). (51 #3534 (EA 52))
- Hubbard, John Hamal On the cohomology of Nash sheaves. (45 #4446)
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- Ogawa, Roy H. On the points of Weierstrass in dimensions greater than one. (48 #4343)
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- Thomas, Charles An integral Riemann-Roch formula for flat line bundles. (55 #5722)
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- A theorem of Matsushima. (51 #524)
- Vaserstein, L. N. (with Suslin, A. A.) Serre's problem on projective modules over polynomial rings, and algebraic K -theory. (Russian) (50 #303)
- van de Ven, A. See Barth, Wolf, (50 #7139) and Barth, Wolf, (52 #420)
- Yamada, Hiroshi On formal schemes. (52 #396)
- Zagorskii, A. A. Three-dimensional conic bundles. (Russian) (57 #3139)

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- Bădescu, Lucian (with Moroianu, Mihnea) Characterization of the morphisms of a scheme in Proj \bar{S} and applications to ample sheaves. (Romanian. French summary) 46 #7234
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- Berndt, Rolf Über die Spur arithmetisch ganzer Differentiale. (Italian summary) 54 #5238
- Brückmann, Peter Zur Kohomologie von projektiven Hyperflächen. 53 #2953
- Brylinski, Jean-Luc Cohomology of a type of affine hypersurfaces. 58 #678
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- Fulton, William Riemann-Roch for singular varieties. 52 #13844
- Galeotti, Marcello Osservazioni sul fascio delle funzioni ologomorfe diverse da zero su una varietà algebrica. 47 #8544
- Gordon, Gerald Leonard Differential of the second kind. 57 #6026
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- Jouanolou, Jean-Pierre Quelques calculs en K -théorie des schémas. 54 #5239
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- Messing, William Differentials of the first, second and third kinds. 52 #3166
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- Alfonsi, Bernard Modules des différentielles et nombre de générateurs d'une algèbre finie. (47 #6690)
- (Baum, Paul) See Verdier, Jean-Louis, (56 #3006)
- Becker, Joseph A. (with Brown, William C.) On extending higher derivations generated by cup products to the integral closure. (53 #13187)
- Bertin, José (with Carbone, Philippe) Sur le sous-module de torsion du module des différentielles. (48 #11107)
- Brinzănescu, Vasile (with Stoia, Manuela) On the cohomology of projective space. (Romanian. English summary) (53 #2969)
- Brown, William C. Blow up sequences and the module of n th order differentials. (58 #10885)
- See also Becker, Joseph A., (53 #13187)
- Brückmann, Peter Zur Kohomologie von vollständigen Durchschnitten mit Koeffizienten in der Garbe der Keime der Differentialformen. (54 #5260)
- Carbone, Philippe See Bertin, José, (48 #11107)
- El Zein, Fouad Classe fondamentale d'un cycle. (51 #3170)
- Farina, Maria Fernanda Una costruzione del fascio associato. (English summary) (58 #16841)
- Forrest, William K. Model theory for universal classes with the amalgamation property: a study in the foundations of model theory and algebra. (58 #202)
- Fulton, William A Hirzebruch-Riemann-Roch formula for analytic spaces and non-projective algebraic varieties. (57 #317)
- See also Verdier, Jean-Louis, (56 #3006)
- Gupta, Surender K. (with Sridharan, R.) Projective modules, Grothendieck groups and the Jacobson-Cartier operator. (48 #8482)
- Kodama, Tetsuo Residue free differentials and the Cartier operator for algebraic function fields of one variable. (47 #8549)
- Lazzeri, Fulvio (with Stănăşilă, Octavian; Tognoli, Alberto) Some remarks on q -flat C^∞ functions. (Italian summary) (50 #320)
- Lungulescu, Bogdan Holomorphic $n-1$ -forms on algebraic hypersurfaces of C^n . (46 #7252)
- (MacPherson, Robert D.) See Verdier, Jean-Louis, (56 #3006)
- Matlis, Eben The Koszul complex and duality. (49 #8980)
- Messing, William On the nilpotence of the hypergeometric equation. (46 #171)
- Pourcin, Geneviève Grassmanniennes de MacPherson. (55 #2891a)
- Théorème de Riemann-Roch pour les schémas quasi-projectifs. (55 #2891b)
- Radu, Nicolae Sur les algèbres dont le module des différentielles est plat. (54 #5236)
- Sibner, Lesley M. (with Sibner, Robert J.) A constructive proof of the Riemann-Roch theorem for curves. (54 #13150)
- Sibner, Robert J. See Sibner, Lesley M., (54 #13150)
- Sridharan, R. See Gupta, Surender K., (48 #8482)
- Stănăşilă, Octavian See Lazzeri, Fulvio; et al., (50 #320)
- Stoia, Manuela Reduced and normal points of a flat morphism. (54 #10264)
- See also Brinzănescu, Vasile, (53 #2969)
- Suzuki, Satoshi ★ Differentials of commutative rings. (51 #12820)
- Tognoli, Alberto See Lazzeri, Fulvio; et al., (50 #320)
- Vainberg, Ju. R. Manin homomorphisms for elliptic curves over a field of formal power series. (Russian) (47 #6697)
- Verdier, Jean-Louis Le théorème de Riemann-Roch pour les variétés algébriques éventuellement singulières (d'après P. Baum, W. Fulton et R. MacPherson). (56 #3006)
- Le théorème de Riemann-Roch pour les intersections complètes. (56 #3007)
- Le théorème de Riemann-Roch pour les variétés algébriques éventuellement singulières (d'après P. Baum, W. Fulton et R. MacPherson). (57 #12508)

14F15 Serre cohomology, K -theory [See also 13D15, 18F25.]

- Bloch, Spencer (with Ogus, Arthur) Gersten's conjecture and the homology of schemes. 54 #318
- Connell, E. H. A K -theory for the category of projective algebras. 52 #5675
- Delorme, Charles Exemples de croissance de la cohomologie par spécialisation. 56 #15646

- Drechsler, Konrad Zur Berechnung der Homologiegruppen der Quadriken. 58 #59
- Geramita, Anthony V. (with Roberts, Leslie G.) Algebraic vector bundles on projective space. 58 #679
- Gersten, Stephen M. Higher K -theory for regular schemes. 46 #7239
- Jouanolou, Jean-Pierre Comparaison des K -théories algébrique et topologique de quelques variétés algébriques. 45 #1930
- Une suite exacte de Mayer-Vietoris en K -théorie algébrique. 53 #13231
- Maebashi, Toshiyuki Homotopy classification theorem in algebraic geometry. 48 #13039
- Maltsiniotis, Georges G.A.G.A. affine (d'après Pierre Deligne). 50 #13039
- Manin, Ju. I. ★ Лекции по алгебраической геометрии. Часть II: K -функтор в алгебраической геометрии. (Russian) [Lectures in algebraic geometry. Part I. K -functor in algebraic geometry] 54 #10268
- Marchionna, Ermanno Su un teorema di dualità debole per una varietà algebrica normale. (English summary) 54 #12779
- Ogus, Arthur See Bloch, Spencer, 54 #318
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- On the algebraic K -theory of affine curves. (Italian summary) 51 #511
- Roberts, Leslie G. The K -theory of some reducible affine varieties. 53 #5594
- SK_1 of n lines in the plane. 54 #10269
- See also Geramita, Anthony V., 58 #679
- Şabac, Mihaela Injective and projective objects in the category of coherent sheaves (Romanian. French summary) 49 #8991
- Schiemann, Günther Die Homologiegruppen der Umgebungsänder gewisser Kegelspitzen. 58 #16669
- Stückrad, Jürgen Grothendieck-Gruppen abelscher Kategorien und Multiplizitäten. 50 #7149

Secondary classifications:

- Deligne, Pierre Théorie de Hodge. I. (56 #356)
- Théorie de Hodge. II. (58 #16653a)
- Théorie de Hodge. III. (58 #16653b)
- Evans, E. Graham, Jr. Position générale et position spéciale en la théorie commutative des anneaux. (58 #22042)
- Griffiths, Phillip Function theory of finite order on algebraic varieties. I(A). (46 #313)
- Kong, Maynard Euler classes of inner product modules. (56 #15645)
- Köpf, Ursula Über eigentliche Familien algebraischer Varietäten über affinoiden Räumen. (54 #10657)
- Lascoux, Alain Calcul de certains polynômes de Thom. (54 #12762)
- Nielsen, H. Andreas Diagonalizably linearized coherent sheaves. (French summary) (51 #3174)
- Ramanujam, C. P. Supplement to the article "Remarks on the Kodaira vanishing theorem" (J. Indian Math. Soc. (N.S.) 36 (1972), 41-51). (52 #13859)
- Svanes, Torgny Some criteria for rigidity of Noetherian rings. (53 #13223)
- Swan, Richard G. A splitting principle in algebraic K -theory. (47 #5079)
- Zak, F. L. Surfaces with zero Lefschetz cycles. (Russian) (49 #298)

14F20 Grothendieck cohomology and topology

- Altman, Allen B. (with Hoobler, Raymond T.; Kleiman, Steven L.) A note on the base change map for cohomology. 49 #2740
- Angeniol, Bernard Théorème de finitude en cohomologie étale (d'après P. Deligne). 56 #3016
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- Artin, Michael (with Milne, James Stuart) Duality in the flat cohomology of curves. 54 #7471
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- Breen, Lawrence Un théorème d'annulation pour certains Ext^i de faisceaux abéliens. 53 #5595
- Bucur, Ion Some applications of the formalism of duality in algebraic geometry. 51 #512
- Debremaeker, Raymond Non abelian cohomology. 58 #675
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- DeMeyer, Frank The Brauer group of affine curves. 55 #10461
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- Hartshorne, Robin On the de Rham cohomology of algebraic varieties. 55 #5633
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- Cohomology in the finite topology and Brauer groups. 47 #6702
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- Jouanolou, Jean-Pierre Riemann-Roch sans dénominateurs. 48 #11115
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- artin, Michael (with Mazur, Barry C.) Formal groups arising from algebraic varieties. (56 #15663)
 arr, Michael Toposes without points. (53 #13354)
 asarab, Șerban A. Cofibered categories and noncommutative H^2 . (Romanian. French summary) (51 #12996)
 ester, Michal Local flat duality of abelian varieties. (58 #28005)
 alaynicki-Birula, Andrzej On fixed points of torus actions on projective varieties. (Russian summary) (53 #13228)
 loch, Spencer (with Ogus, Arthur) Gersten's conjecture and the homology of schemes. (54 #318)
 ucucur, Ion Sur un invariant local associé à un point fixe d'un endomorphisme d'une courbe algébrique. (53 #5605)
 Deligne, Pierre Poids dans la cohomologie des variétés algébriques. (55 #5634)
 Douai, Jean-Claude Cohomologie des schémas en groupes semi-simples sur les anneaux de Dedekind et sur les courbes lisses, complètes, irréductibles. (English summary) (56 #2978)
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- Artin, Michael (with Mumford, David) Some elementary examples of unirational varieties which are not rational. (48 #299)
 Atiyah, M. F. (with Bott, Raoul; Gårding, L.) Lacunas for hyperbolic differential operators with constant coefficients. I. (57 #10252a)
 (with Bott, Raoul; Gårding, L.) Lacunas for hyperbolic differential operators with constant coefficients. I. (Russian) (58 #29313)
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 Carrell, James B. (with Lieberman, David I.) Vector fields, Chern classes, and cohomology. (57 #727)
 Di Stefano, F. (with Zanoboni, S.) Successione generalizzata di Wang e applicazioni allo studio della topologia delle varietà proiettive. (English summary) (51 #8480)
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 Goresky, R. Mark (with MacPherson, Robert D.) La dualité de Poincaré pour les espaces singuliers. (English summary) (55 #13408)
 Harlamov, V. M. A generalized Petrovskii inequality. (Russian) (50 #2549)
 Kultz, Rolf Der Cohomologiering von komplexen Quadriken. (English summary) (53 #13249)
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 Messing, William Short sketch of Deligne's proof of the hard Lefschetz theorem. (57 #12507)
 Milani, M. (with Tognoli, Alberto) Alcune osservazioni sui cicli algebrici del toro. (English summary) (48 #2429)
 Monsky, Paul Finiteness of de Rham cohomology. (46 #177)
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 Stevenson, Edith Integral representations of algebraic cohomology classes on hypersurfaces. (56 #12000)
 Ta, Man On the homology groups of real projective spaces. (Romanian. French summary) (55 #4137)
 Tognoli, Alberto See Milani, M., (48 #2429)
 Toledo, Domingo (with Tong, Yue Lin L.) The holomorphic Lefschetz formula. (53 #8477)
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 Zucker, Steven M. Intermediate Jacobians and the Hodge conjecture for cubic fourfolds. (56 #3008)

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- Berthelot, Pierre Sur le "théorème de Lefschetz faible" en cohomologie cristalline. 50 #2173
 ★Cohomologie cristalline des schémas de caractéristique $p > 0$. 52 #5676
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 Lubkin, Saul Generalization of p -adic cohomology: bounded Witt vectors. A canonical lifting of a variety in characteristic $p \neq 0$ back to characteristic zero. 56 #12005
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- Artin, Michael (with Milne, James Stuart) Duality in the flat cohomology of curves. (54 #7471)
 Bosch, Siegfried Zur Kohomologietheorie rigid analytischer Räume. (English summary) (58 #22683)
 Cristante, Valentino Coomologia di Galois dei gruppi analitici commutativi di caratteristica positiva. (English summary) (55 #8049)
 Desale, Usha V. (with Ramanan, S.) Poincaré polynomials of the variety of stable bundles. (52 #402)
 Grothendieck, A. ★Groupes de Barsotti-Tate et cristaux de Dieudonné. (54 #5250)
 Katz, Nicholas M. Algebraic solutions of differential equations (p -curvature and the Hodge filtration). (49 #2728)
 Mazur, Barry C. Frobenius and the Hodge filtration. (48 #8507)
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- Newman, Kenneth The coalgebra structure of Hopf algebras. (58 #16750)
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- Allibert, Daniel Traces non commutatives et termes locaux de la formule de Lefschetz-Verdier. (English summary) 58 #680
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 Cherenack, Paul Unirational homotopy theory. 57 #3133
 Some invariant theory among quasi-projectives. 58 #16671
 Some topological functors arising from algebraic geometry. 58 #27986
 Cox, David A. Homotopy limits and the homotopy type of functor categories. 53 #10805
 Friedlander, Eric M. Fibrations in étale homotopy theory. 51 #3175
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- Barth, Wolf Larsen's theorem on the homotopy groups of projective manifolds of small embedding codimension. (51 #13296)
 Edwards, David A. Étale homotopy theory and shape. (51 #11491 (E 52 #4276))
 Évrard, Marcel Fibrations de petites catégories. (53 #5701)
 Friedlander, Eric M. Computations of K -theories of finite fields. (52 #15461)
 Hoobler, Raymond T. (with Rector, David L.) Arithmetic K -theory. (52 #6700)
 Kiehl, Reinhardt Ein "Descente"-Lemma und Grothendiecks Projektionssatz für nichtnoethersche Schemata. (52 #3165)
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 Maebashi, Toshiyuki A homotopy classification in scheme theory. (58 #22068)
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- Bégueri, Lucile Foncteurs de ramification d'une extension finie radicielle. 45 #8660
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 Cih, A. K. The two-dimensional homology group of the complement of an algebraic curve in CP^2 . (Russian) 56 #8575
 Gončarova, L. V. The cohomology of Lie algebras of vector fields on algebraic curves. (Russian) 53 #5596
 Grothendieck, A. (with Seydi, Hamet) Platitude d'une adhérence schématique et lemme de Hironaka généralisé. (English summary) 45 #3426
 Harlamov, V. M. Additional congruences for the Euler characteristic of even-dimensional real algebraic varieties. (Russian) 53 #5597
 Hartshorne, Robin Algebraic de Rham cohomology. 47 #1810
 Holme, Audun On the minimal dimension of the ambient space of a projective scheme. 45 #3427
 Lungulescu, Bogdan The theory of connections on graded differential algebras and characteristic classes. I. (Romanian. English summary) 55 #10462
 Seydi, Hamet See Grothendieck, A., 45 #3426

Secondary classifications:

- Bănică, Constantin (with Brinzănescu, Vasile) Hilbert-Samuel polynomials of a complex of modules. (55 #10448)
 Berković, V. G. The Brauer group of abelian varieties. (Russian) (46 #7249)
 Brinzănescu, Vasile See Bănică, Constantin, (55 #10448)
 Carlson, James A. Some degeneracy theorems for entire functions with values in an algebraic variety. (45 #5417)
 Douai, Jean-Claude 2-cohomologie galoisienne des groupes semi-simples définis sur les corps locaux. (English summary) (53 #5540)
 Dubson, Alberto S. Classes caractéristiques des variétés singulières. (English summary) (58 #17189)
 Hiller, Howard Lyn Fibrations and Grothendieck topologies. (53 #13355)
 Hoobler, Raymond T. Cohomology of purely inseparable Galois coverings. (51 #513)
 Lascu, Alexandru (with Scott, D. Bernard) A simple proof of the formula for the blowing up of Chern classes. (57 #12506)
 Ogus, Arthur On the formal neighborhood of a subvariety of projective space. (53 #5591)
 The formal Hodge filtration. (53 #5592)
 Scott, D. Bernard See Lascu, Alexandru, (57 #12506)

14Gxx Arithmetic problems [For complex multiplication, see 10D25, 14K22.]

- Manin, Ju. I. ★Кубические формы: алгебра, геометрия, арифметика. (Russian) [Cubic forms: algebra, geometry, arithmetic] 50 #13040

Secondary classifications:

- Paršin, A. N. The arithmetic of algebraic varieties. (Russian) (56 #5539)
 Serre, Jean-Pierre ★Corps locaux. (50 #7096)
 Zimmer, Horst Günter ★Computational problems, methods, and results in algebraic number theory. (48 #2107)

14G05 Rationality questions

- Ax, James Transcendence and differential algebraic geometry. 56 #15648
 Bel'skii, A. A. Admissible equivalences on cubic hypersurfaces. (Russian) 50 #4587
 Birational translations on cubic hypersurfaces. (Russian) 57 #9701
 Birch, B. J. Heegner points of elliptic curves. 52 #5677

- Borovoi, M. V. The action of the Galois group on the rational cohomology class type (p, p) of abelian varieties. (Russian) 50 #4588
 Christy, Daniel Courbes de genre 1 dans les corps quadratiques. 47 #6704a
 Courbes de genre 1 dans les corps cubiques. 47 #6704b
 Colliot-Thélène, Jean-Louis (with Sansuc, Jean-Jacques) Torseurs sous des groupes algébriques. (English summary) 54 #2657
 (with Sansuc, Jean-Jacques) La R -équivalence sur les tores. 56 #8576
 (with Sansuc, Jean-Jacques) Variétés de première descente attachées aux variétés rationnelles. (English summary) 56 #5561
 Damerell, R. M. L -functions of elliptic curves with complex multiplication. II. 53 #2954
 Dem'janenko, V. A. A decomposition of the coordinates of the torsion points into L -factors. (Russian) 48 #11116
 The rational points of algebraic curves. (Russian) 55 #10463
 Frey, Gerhard Die Klassengruppen quadratischer und kubischer Zahlkörper und Selmergruppen gewisser elliptischer Kurven. (English summary) 52 #409
 Hadano, Toshihiro On the conductor of an elliptic curve with a rational point of order 50 #7151
 Hellegouarch, Yves Sur un théorème de Maillet. 45 #3416
 See also Sarmant-Durix, Marie-Claude, 53 #2955
 Hubert, Michel Torsion des courbes elliptiques. 47 #8546
 Ito, Hideji Rational points of abelian varieties in Γ -extension. 50 #4589
 Joly, Jean-René (with Tena Ayuso, Juan) Sous-groupes rationnels et points rationnels d'ordre fini sur certaines courbes elliptiques. 47 #1811
 (with Tena Ayuso, Juan) Rationalité des points paraboliques de $\Gamma_0(N)$. Application aux courbes elliptiques sur \mathbb{Q} . 47 #1812
 Kudla, Stephen S. On the R -forms of certain algebraic varieties. 52 #410
 Kurčanov, P. F. Elliptic curves of finite rank over Γ -extensions. (Russian) 48 #6117
 Lewis, Donald J. Curves with abnormally many integral points. 49 #10698
 (with Schuur, Susan E.) Varieties of small degree over finite fields. 48 #3965
 Ligozat, Gérard Fonction L des courbes modulaires. 45 #3417
 Mazur, Barry C. (with Vêlu, Jacques) Courbes de Weil de conducteur 26. 47 #8551
 (with Tate, J.) Points of order 13 on elliptic curves. 50 #327
 (with Swinnerton-Dyer, H. P. F.) Arithmetic of Weil curves. 50 #7152
 Miyawaki, Isao Elliptic curves of prime power conductor with \mathbb{Q} -rational points of finite order. 48 #6118
 Nasybulin, A. G. Elliptic Tate curves over local Γ -extensions. (Russian) 47 #8547
 Ogg, Andrew P. Rational points on certain elliptic modular curves. 49 #2743
 Hyperelliptic modular curves. 51 #514
 Diophantine equations and modular forms. 50 #7153
 Roquette, Peter Nonstandard aspects of Hilbert's irreducibility theorem. 53 #5598
 Sansuc, Jean-Jacques See Colliot-Thélène, Jean-Louis, 54 #2657; Colliot-Thélène, Jean-Louis, 56 #5561 and Colliot-Thélène, Jean-Louis, 56 #8576
 Sarmant-Durix, Marie-Claude Points rationnels d'ordre fini des courbes abéliennes (thèse d'Yves Hellegouarch). 53 #2955
 Schuur, Susan E. See Lewis, Donald J., 48 #3965
 Shioda, Goro Rational points of Jacobi's quartic curve $y^2 = (1 - \sigma^2 x^2)(1 - x^2/\sigma^2)$ over $k(\sigma)$. 51 #12858
 Slater, J. B. Determination of L -functions of elliptic curves parametrized by modular functions. 50 #2174
 Swinnerton-Dyer, H. P. F. Rational points on del Pezzo surfaces of degree 5. 51 #12859 (EA 52)
 See also Mazur, Barry C., 50 #7152
 Tate, J. See Mazur, Barry C., 50 #327
 Tena Ayuso, Juan Points rationnels d'ordre 15 sur une courbe elliptique. 46 #179
 See also Joly, Jean-René, 47 #1811 and Joly, Jean-René, 47 #1812
 Vêlu, Jacques Les points rationnels de $X_0(37)$. 51 #3176
 See also Mazur, Barry C., 47 #8551
 Wohlfahrt, Klaus Über die rationalen Punkte dreier elliptischer Kurven. 50 #2175
 Zimmer, Horst Günter Die Néron-Tate'schen quadratischen Formen auf der rationalen Punktgruppe einer elliptischen Kurve. 50 #328
 Ein Analogon des Satzes von Nagell-Lutz über die Torsion einer elliptischen Kurve. 50 #4590

Secondary classifications:

- Apéry, Roger Points rationnels sur certaines courbes algébriques. (51 #12694 (EA 52)
 Arakelov, S. Ju. Families of algebraic curves with fixed degeneracies. (Russian) (48 #298)
 Bašmakov, M. I. (with Kuročkin, A. S.) Rational points on a certain modular curve in cyclotomic 2-extension. (Russian) (56 #8577)
 Bel'skii, A. A. Rational points of intersection of two hyperquadrics. (Russian) (46 #3517)
 Berković, V. G. Division by an isogeny of the points of an elliptic curve. (Russian) (49 #8996)
 Brumer, Armand Remarques sur les couples de formes quadratiques. (English summary) (58 #16502)
 Coray, Daniel F. Sur les points algébriques des hypersurfaces de degré 3. (English summary insert) (50 #9786)
 Dem'janenko, V. A. The uniform boundedness of the torsion of elliptic curves over algebraic number fields. (Russian) (46 #1798)
 The Tate height. (Russian) (49 #2764)
 The uniform boundedness of the torsion of elliptic curves over algebraic number fields. (Russian) (49 #2763a)
 Torsion of elliptic curves. (Russian) (49 #2763b)
 Tate height, and the representation of numbers by binary forms. (Russian) (51 #349)
 Mordell's conjecture. (Russian) (52 #262)
 Frey, Gerhard Pseudo algebraically closed fields with non-Archimedean real valuation. (48 #3931)

- alkin, V. M. A certain ideal in the group ring of a cyclic group. (Russian) (52 #13747)
- odeaux, Lucien Sur les points d'Eckardt d'une surface cubique. II. (46 #7251)
- airov, A. A. See Ogaï, S. V., (See RZMat 1970 #12 A101)
- ellegouarch, Yves Points d'ordre $2p^n$ sur les courbes elliptiques. (52 #412)
- ooley, Christopher On the lattice points on unicursal cubic curves. (48 #237)
- ai, Hideo A remark on the rational points of abelian varieties with values in cyclotomic \mathbb{Z}_p -extensions. (51 #8119)
- hli, Shiboko Some projective contraction theorems. (57 #12500)
- ambayashi, Tatsuji (with Miyawaki, Masayoshi; Takeuchi, Mitsuhiro) ★Unipotent algebraic groups. (51 #12871)
- ashiwara, Masaki (with Kawai, Takahiro) Micro-hyperbolic pseudo-differential operators. I. (51 #14167)
- awai, Takahiro See Kashiwara, Masaki, (51 #14167)
- ujavskii, B. È. Tori with a biquadratic splitting field. (Russian) (58 #16515)
- určanov, P. F. The rank of elliptic curves over Γ -extensions. (Russian) (49 #8995)
- uročkin, A. S. See Bašmakov, M. I., (56 #8577)
- ang, Serge Higher dimensional diophantine problems. (50 #12914)
- ondon, Hymie (with Steiner, Ray P.) ★On Mordell's equation $y^2 - k = x^3$. (49 #4928)
- lacrae, R. E. On Euclidean rings of algebraic functions. (50 #306)
- lanin, Ju. I. Cyclotomic fields and modular curves. (Russian) (53 #5480)
- lazur, Barry C. Frobenius and the Hodge filtration (estimates). (48 #297)
- (with Messing, William) ★Universal extensions and one dimensional crystalline cohomology. (51 #10350)
- messing, William See Mazur, Barry C., (51 #10350)
- iyawaki, Masayoshi See Kambayashi, Tatsuji; et al., (51 #12871)
- gaï, S. V. (with Hairer, A. A.) A method for the construction of Diophantine equations that have a finite number of rational points. (Russian) (See RZMat 1970 #12 A101)
- ono, Takeshi On the Hopf fibration over \mathbb{Z} . (50 #9785)
- ort, Frans Elliptic curves: Diophantine torsion solutions and singular j -invariants. (50 #13054)
- arsin, A. N. Modular correspondences, heights and isogenies of abelian varieties. (Russian) (49 #10702)
- enney, David E. (with Pomerance, Carl) A search for elliptic curves with large rank. (51 #12861)
- (with Pomerance, Carl) Three elliptic curves with rank at least seven. (51 #12862)
- ohl, William F. A theorem of géométrie finie. (53 #13657)
- omerance, Carl See Penney, David E., (51 #12861) and Penney, David E., (51 #12862)
- shih, Kuang-yen On the construction of Galois extensions of function fields and number fields. (48 #11051)
- shimura, Goro On the field of rationality for an abelian variety. (46 #5342)
- Steiner, Ray P. See London, Hymie, (49 #4928)
- takahashi, Shōichi On the Witt vectors. (52 #418)
- takeuchi, Mitsuhiro See Kambayashi, Tatsuji; et al., (51 #12871)
- u, Jacques Courbes elliptiques sur \mathbb{Q} ayant bonne réduction en dehors de $\{1\}$. (47 #5004)
- Voskresenskii, V. E. Fields of invariants of abelian groups. (Russian) (52 #13748)
- Vedenskiĭ, O. M. The "universal norms" of formal groups defined over the ring of integers of a local field. (Russian) (49 #307)
- Williams, Kenneth S. Note on cubics over $\text{GF}(2^n)$ and $\text{GF}(3^n)$. (52 #5632)
- Nasybullin, A. G. p -adic L -series of supersingular elliptic curves. (Russian) 52 #411
- Platetski-Shapiro, I. I. Zeta-functions of modular curves. 49 #2744
- Rajwade, A. R. The Diophantine equation $y^2 = x(x^2 + 21Dx + 112D^2)$ and the conjectures of Birch and Swinnerton-Dyer. 57 #12518
- Razar, Michael J. The non-vanishing of $L(1)$ for certain elliptic curves with no first descents. 50 #13044a
- A relation between the two-component of the Tate-Šafarevič group and $L(1)$ for certain elliptic curves. 50 #13044b
- Sato, Mikio (with Shintani, Takuro) On zeta functions associated with prehomogeneous vector spaces. 45 #5140
- Shintani, Takuro See Sato, Mikio, 45 #5140
- Stepanov, S. A. The estimation of rational trigonometric sums with prime denominator. (Russian) 47 #6706
- The constructive method in the theory of equations over finite fields. (Russian) 49 #2745
- Thomas, Alan D. ★Zeta-functions: an introduction to algebraic geometry. 56 #365
- Turner, Stuart The zeta function of a class of rational varieties. 52 #3169
- Waterhouse, William C. (with Milne, James Stuart) Abelian varieties over finite fields. 47 #3397
- Wiles, A. See Coates, John, 57 #327 and Coates, John, 57 #3134
- Yoshida, Hiroyuki On an analogue of the Sato conjecture. 49 #2746

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- Damerell, R. M. L -functions of elliptic curves with complex multiplication. II. (53 #2954)
- Goldfeld, Dorian M. The conjectures of Birch and Swinnerton-Dyer and the class numbers of quadratic fields. (56 #5491)
- Hadano, Toshihiro Remarks on the conductor of an elliptic curve. (47 #230)
- Ibukiyama, Tomoyoshi Formal groups and L functions. (50 #7170)
- Karacuba, A. A. Distribution of the values of Legendre symbols in polynomials with prime numbers. (Russian) (58 #16569)
- Katz, Nicholas M. The Eisenstein measure and p -adic interpolation. (58 #5602)
- Kirillov, A. N. Commutative formal groups. (Russian) (56 #15664)
- Knopfmacher, John Finite modules and algebras over rings of algebraic functions. (54 #12684)
- Koblitz, Neal I. ★ p -adic numbers, p -adic analysis, and zeta-functions. (57 #5964)
- Kučanov, P. F. The zeta-function of elliptic curves over certain abelian extensions of imaginary quadratic fields. (Russian) (58 #16519)
- Langlands, R. P. Modular forms and l -adic representations. (50 #7095)
- Shimura varieties and the Selberg trace formula. (58 #16528)
- Lavrík, A. F. Periodic Dirichlet functions with Riemann type functional equations. I. (Russian) (47 #6624)
- Manin, Ju. I. Non-Archimedean integration and p -adic Jacquet-Langlands L -functions. (Russian) (54 #5194)
- Milne, James Stuart On the arithmetic of abelian varieties. (48 #8512)
- Miyake, Toshitsune Decomposition of Jacobian varieties and Dirichlet series of Hecke type. (45 #180)
- Pimenov, M. V. The oscillation of the sign of the remainder in the formula for the number of points of an algebraic curve. (Russian) (54 #10274)
- Ribet, Kenneth A. p -adic interpolation via Hilbert modular forms. (54 #7435)
- Serre, Jean-Pierre Majorations de sommes exponentielles. (56 #5457)
- Slater, J. B. Determination of L -functions of elliptic curves parametrized by modular functions. (50 #2174)
- Congruences on the L -function of an elliptic curve parametrized by modular functions. (52 #13849)

14G13 Weil-Tate conjectures

- Birch, B. J. Elliptic curves over \mathbb{Q} : A progress report. 47 #3395
- Bombieri, Enrico Nuovi risultati sulla geometria di una ipersuperficie cubica a tre dimensioni. 57 #6027
- Casselman, William On representations of GL_2 and the arithmetic of modular curves. 49 #5012 (E 52 #3168)
- Correction to: "On representations of GL_2 and the arithmetic of modular curves" (Modular functions of one variable, II (Proc. Internat. Summer School, Univ. Antwerp, Antwerp, 1972), pp. 107-141, Lecture Notes in Math., Vol. 349, Springer, Berlin, 1973). 52 #3168
- Coates, John (with Wiles, A.) Explicit reciprocity laws. 57 #327
- (with Wiles, A.) On the conjecture of Birch and Swinnerton-Dyer. 57 #3134
- Cvetkov, V. M. The ζ -functions of certain algebraic curves. (Russian) 57 #16304
- Drinfel'd, V. G. Two theorems on modular curves. (Russian) 47 #6705
- Hill, Walter L. Formal groups and zeta-functions of elliptic curves. 45 #1921
- Honda, Taira Invariant differentials and L -functions. Reciprocity law for quadratic fields and elliptic curves over \mathbb{Q} . 50 #13041
- (with Miyawaki, Isao) Zeta-functions of elliptic curves of 2-power conductor. 50 #13042
- Katz, Nicholas M. Introduction aux travaux récents de Dwork. 50 #13043
- (with Messing, William) Some consequences of the Riemann hypothesis for varieties over finite fields. 48 #11117
- p -adic L -functions via moduli of elliptic curves. 55 #5635
- p -adic interpolation of real analytic Eisenstein series. 58 #22071
- Kiefe, Catarina Sets definable over finite fields: their zeta-functions. 54 #10272
- Kisun'ko, A. G. The elliptic curves $x^3 + y^3 = D$. (Russian) 45 #6822
- Koblitz, Neal I. p -adic variation of the zeta-function over families of varieties defined over finite fields. 54 #2658
- Manin, Ju. I. Parabolic points and zeta functions of modular curves. (Russian) 47 #3396
- Mazur, Barry C. Eigenvalues of Frobenius acting on algebraic varieties over finite fields. 51 #8113
- Messing, William See Katz, Nicholas M., 48 #11117
- Milne, James Stuart On a conjecture of Artin and Tate. 54 #2659
- See also Waterhouse, William C., 47 #3397
- Miyawaki, Isao See Honda, Taira, 50 #13042
- Artin, Michael (with Swinnerton-Dyer, H. P. F.) The Shafarevich-Tate conjecture for pencils of elliptic curves on $K3$ surfaces. 54 #5240
- Bombieri, Enrico Counting points on curves over finite fields (d'après S. A. Stepanov). 55 #2912
- Hilbert's 8th problem: an analogue. 55 #2913
- On exponential sums in finite fields. II. 58 #22072
- Deligne, Pierre La conjecture de Weil pour les surfaces $K3$. 45 #5137
- La conjecture de Weil. I. 49 #5013
- The Weil conjecture. I. (Russian) 52 #8125
- Eliştratu, I. V. An estimate of the number of solutions of a certain equation in a finite field. (Russian. Tajiki summary) 50 #9872
- Iskovskih, V. A. Verification of the Riemann hypothesis for certain local zeta-functions. (Russian) 54 #319
- Katz, Nicholas M. Travaux de Dwork. (English summary) 58 #16672
- An overview of Deligne's proof of the Riemann hypothesis for varieties over finite fields. 54 #12780
- Kleiman, Steven L. Algebraic cycles and the Weil conjectures. 45 #1920
- (Manin, Ju. I.) See Deligne, Pierre, 52 #8125
- Mit'kin, D. A. On the estimation of a rational trigonometric sum with prime denominator. (Russian. English summary) 48 #8506
- Perel'muter, G. I. Estimation of a multiple sum with the Legendre symbol for a polynomial of odd degree. (Russian) 56 #3019
- Platetski-Shapiro, I. I. (with Šafarevič, I. R.) The arithmetic of surfaces of type $K3$. (Russian) 49 #302
- Rapoport, Michael Complément à l'article de P. Deligne "La conjecture de Weil pour les surfaces $K3$ ". 46 #9046
- Šafarevič, I. R. See Platetski-Shapiro, I. I., 49 #302
- Schmidt, Wolfgang M. Zur Methode von Stepanov. 48 #11118
- Serre, Jean-Pierre Valeurs propres des endomorphismes de Frobenius (d'après P. Deligne). 57 #3135
- Stark, H. M. On the Riemann hypothesis in hyperelliptic function fields. 48 #11119

- Stepanov, S. A. A note on my paper "The estimation of Weil sums with prime denominator". (Russian) **45** #6821
 Congruences with two unknowns. (Russian) **47** #3398
 An elementary proof of the Hasse-Weil theorem for hyperelliptic curves. **50** #9873
 Rational points of algebraic curves over finite fields. (Russian) **52** #5678
- Swinnerton-Dyer, H. P. F. See Artin, Michael, **54** #5240
- Tennison, B. R. On the quartic threefold. **54** #7474
- Verdier, Jean-Louis Indépendance par rapport à ℓ des polynômes caractéristiques des endomorphismes de Frobenius de la cohomologie ℓ -adique (d'après P. Deligne). **54** #7475

Secondary classifications:

- Avanesov, È. T. The equation $Ax^3 + By^3 + Cz^3 = Nxyz$. (Russian. English summary) **(58** #10718)
- Clemens, C. Herbert (with Griffiths, Phillip) The intermediate Jacobian of the cubic threefold. **(46** #1796)
- Delligne, Pierre Les intersections complètes de niveau de Hodge un. **(46** #189)
- Elisratov, L. V. An elementary approach to the estimation of rational trigonometric sums. (Russian. Lithuanian and English summaries) **(56** #278)
- Griffiths, Phillip See Clemens, C. Herbert, **(46** #1796)
- Inose, Hiroshi See Shioda, Tetsuji, **(56** #371)
- Joly, Jean-René Équations et variétés algébriques sur un corps fini. **(48** #6065)
- Mazur, Barry C. Eigenvalues of Frobenius acting on algebraic varieties over finite fields. **(51** #8113)
- Mit'kin, D. A. Estimation of the sum of the Legendre symbols of polynomials of even degree. (Russian) **(48** #11120)
- Perel'muter, G. I. Estimation of a multiple sum with the Legendre symbol. (Russian) **(53** #2862)
- Postnikov, A. G. (with Stepanov, S. A.) On the theory of Jacobsthal sums. (Russian) **(58** #27834)
- Schmidt, Wolfgang M. A lower bound for the number of solutions of equations over finite fields. **(50** #13045)
- ★Equations over finite fields. An elementary approach. **(55** #2744)
- Šermenev, A. M. The motif of a Weil hypersurface. (Russian) **(48** #2145)
- Shioda, Tetsuji (with Inose, Hiroshi) On singular $K3$ surfaces. **(56** #371)
- Stepanov, S. A. An elementary method in the theory of equations over a finite field. (Russian) **(55** #5523)
- See also Postnikov, A. G., **(58** #27834)
- Van Meter, Robert G. The number of solutions of certain equations over a finite field. **(48** #3926)

14G15 Finite ground fields

- Borosh, Itshak (with Moreno, Carlos Julio; Porta, Horacio) Elliptic curves over finite fields. I. **53** #8066
 (with Moreno, Carlos Julio; Porta, Horacio) Elliptic curves over finite fields. II. **53** #8067
- Ihara, Yasutaka On the differentials associated to congruence relations and the Schwarzian equations defining uniformizations. **58** #22073
 On modular curves over finite fields. **53** #2956
- Kanevskii, D. S. Classes of points of cubic hypersurfaces defined over finite fields. (Russian) **57** #16305
- Miller, Leonhard Curves with invertible Hasse-Witt-matrix. **47** #3399
- Moreno, Carlos Julio See Borosh, Itshak; et al., **53** #8066 and Borosh, Itshak; et al., **53** #8067
- Paršin, A. N. Algebraic curves over function fields with a finite field of constants. (Russian) **57** #16306
- Porta, Horacio See Borosh, Itshak; et al., **53** #8066 and Borosh, Itshak; et al., **53** #8067
- Stepanov, S. A. Equations over finite fields. (Russian) **55** #12725
- Zarhin, Ju. G. Endomorphisms of Abelian varieties over fields of finite characteristic. (Russian) **51** #8114

Secondary classifications:

- Artin, Michael Supersingular $K3$ surfaces. **(51** #8116)
- Chowla, Paromita (with Chowla, S.) On the integer points on some special hyper-elliptic curves over a finite field. **(54** #2587)
- Chowla, S. See Chowla, Paromita, **(54** #2587)
- Colliot-Thélène, Jean-Louis Quelques propriétés arithmétiques des surfaces rationnelles. **(53** #447)
- Harder, G. Semisimple group schemes over curves and automorphic functions. **(54** #12655)
- Ivanov, A. F. p -adic Dirichlet characters of function fields. (Russian) **(53** #8019)
- (Manin, Ju. I.) See Colliot-Thélène, Jean-Louis, **(53** #447)
- Milne, James Stuart See Waterhouse, William C., **(47** #3397)
- Mit'kin, D. A. Existence of rational points on a hyperelliptic curve over a finite prime field. (Russian. English summary) **(53** #5471)
- Shioda, Tetsuji On unirationality of supersingular surfaces. **(55** #2920)
- Waterhouse, William C. (with Milne, James Stuart) Abelian varieties over finite fields. **(47** #3397)
- Zarhin, Ju. G. Abelian varieties in characteristic p . (Russian) **(54** #10278)

14G20 p -adic ground fields (local fields)

- Basarab, Șerban A. The closeness to rationality of the points of a certain elliptic curve defined over a local field. (Romanian. English summary) **53** #10806
- Berthelot, Pierre Valuation p -adique des zéros et pôles de la fonction zêta d'une variété algébrique sur un corps fini. **50** #13046

- Christol, Gilles Structure de Frobenius des équations différentielles p -adiques. **58** #16673

Dwork, Bernard p -adic cycles. **45** #3415

- Normalized period matrices. I. Plane curves. **53** #442a
 Normalized period matrices. II. **53** #442b
 On p -adic differential equations. II. The p -adic asymptotic behavior of solutions of ordinary linear differential equations with rational function coefficients. **58** #27987b
 On p -adic differential equations. IV. Generalized hypergeometric functions. p -adic analytic functions in one variable. **58** #27988b
 On p -adic differential equations. III. On p -adically bounded solutions of ordinary linear differential equations with rational function coefficients. **58** #27988a
 On p -adic differential equations. I. The Frobenius structure of differential equations. **58** #27987a
 On ordinary linear p -adic differential equations with algebraic function coefficients. **58** #22074
 (with Robba, Philippe) On ordinary linear p -adic differential equations. **56** #5562
 See also Robba, Philippe, **53** #2957; Robba, Philippe, **58** #27989a; Robba, Philippe, **58** #27989b; Robba, Philippe, **58** #27989c; Robba, Philippe, **58** #27990 and Robba, Philippe, **58** #27991
- Elroymsen, Gustave A. Henselian fields and solid k -varieties. II. **47** #6707b
 Solid k -varieties and Henselian fields. **47** #6707a
 Real varieties and p -adic varieties. **58** #5679
- Frey, Gerhard Elliptische Funktionenkörper mit schlechter Reduktion. **46** #7242
- Igusa, Jun-ichi On the first terms of certain asymptotic expansions. **58** #5680
- Mazur, Barry C. Frobenius and the Hodge filtration. **48** #8507
 Frobenius and the Hodge filtration (estimates). **48** #297
- Prichett, Gordon D. Some results on torsion subgroups of elliptic curves over P -adic fields. **52** #5679
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- Sullivan, Francis J.** p -torsion in the class group of curves with two many automorphisms. 52 #13846
- Tamme, Günter** Teilkörper höheren Geschlechts eines algebraischen Funktionenkörpers. 47 #228
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- Alling, Norman L.** (with Greenleaf, Newcomb) ★Foundations of the theory of Klein surfaces. (48 #11488)
- Brzeziński, Juliusz** Remarks on relations between maximal lattices and relatively minimal models. (53 #13172)
- Cassels, J. W. S.** (with Ellison, William John; Pfister, Albrecht) On sums of squares and on elliptic curves over function fields. (45 #1863)
Corrigendum: "A note on the division values of $p(u)$ ". (45 #177)
- Elisratov, I. V.** Some questions of the theory of algebraic functions. (Russian) (53 #2902)
- Ellison, William John** See **Cassels, J. W. S.**; et al., (45 #1863)
- Endô, Shizuo** (with Miyata, Takehiko) On a classification of the function fields of algebraic tori. (51 #458)
- Fried, Michael D.** Arithmetical properties of function fields. II. The generalized Schur problem. (56 #2968)
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- Greenleaf, Newcomb** See **Alling, Norman L.**, (48 #11488)
- Kubert, Daniel Sion** Quadratic relations for generators of units in the modular function field. (55 #5536)
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- Martens, Gerriet** Galoisgruppen über aufgeschlossenen reellen Funktionenkörpern. (53 #13178)
- Miyata, Takehiko** See **Endô, Shizuo**, (51 #458)
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- Queen, Clifford S.** See **Madan, Manohar L.**, (48 #3922)
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- Geyer, Wulf-Dieter** Invarianten binärer Formen. 51 #10342
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- Lindner, Martin** Über die Mannigfaltigkeit ebener Kurven mit Singularitäten. 56 #3022
- Lensted, Knud** The hyperelliptic locus with special reference to characteristic two. 53 #10813
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- Recillas Pishmish, Sevin** The variety of moduli of curves of genus 4 is unirational. (Spanish) 47 #8550
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- Arbarello, Enrico** Alcune osservazioni sui moduli delle curve appartenenti ad una data superficie algebrica. (English summary) (58 #686)
- Engber, Michael** A criterion for divisoriality. (47 #5002)
- Lindner, Martin** Stratifizierung im Hilbertschema. (58 #16651)
- Martens, Henrik H.** Riemann matrices with many polarizations. (58 #1266)
- Namikawa, Yukihiko** On the canonical holomorphic map from the moduli space of stable curves to the Igusa monoidal transform. (49 #2750)
- Oort, Frans** Lifting an endomorphism of an elliptic curve to characteristic zero. (49 #5019)
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- Kuribayashi, Akikazu** (with Moriya, Ryôji; Yoshida, Katsuaki) On a family of non-hyperelliptic compact Riemann surfaces of genus 3. 55 #10467
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- Lange, Herbert** Moduli spaces of algebraic curves with rational maps. 53 #10814
- Lax, Robert F.** On the dimension of varieties of special divisors. II. 51 #12865
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- Mumford, David** An analytic construction of degenerating curves over complete local rings. 50 #4592
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- Namikawa, Yukihiko** On the canonical holomorphic map from the moduli space of stable curves to the Igusa monoidal transform. 49 #2750
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- Gunning, Robert C. Quadratic periods of hyperelliptic Abelian integrals. (50 #7511)
- Hejhal, Dennis A. Monodromy groups and linearly polymorphic functions. (57 #3380)
- Helling, H. Diskrete Untergruppen von $SL_2(\mathbb{Q})$. (48 #2427)
- Über den Raum der kompakten Riemannschen Flächen vom Geschlecht 2. (50 #13613)
- Jenner, W. E. On parametrization of elliptic curves by theta functions. (46 #9049)
- Kempf, George R. A property of the periods of a Prym differential. (53 #5945)
- Kenku, M. A. Atkin-Lehner involutions and class number residuality. (58 #601)
- Kuribayashi, Aikazu On the generalized Teichmüller spaces and differential equations. (54 #13141)
- Lax, Robert F. On the existence of Ogawa's Weierstrass points. (54 #13149)
- On higher order Weierstrass points of the universal curve. (58 #16681)
- Lebowitz, Aaron A remark on degeneration of a compact Riemann surface of genus 2. (50 #10329)
- Some degenerations of a compact Riemann surface of genus 4. (51 #8469)
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- Manin, Yu. I. p -adic automorphic functions. (Russian) (54 #10153)
- Martens, Henrik H. Homomorphisms associated with multiplicative functions. (50 #2184)
- Merle, Michel Sur l'espace des modules des courbes de semi-groupe donné. (English summary) (55 #2898)
- Mumford, David Pathologies IV. (57 #332)
- Rauch, Harry E. (with Lewittes, J.) The Riemann surface of Klein with 168 automorphisms. (49 #10876)
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- Kunz, Ernst (with Ruppert, Walter) Quasihomogene Singularitäten algebraischer Kurven. (English summary) 57 #3138
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- Courbes discriminantes des singularités planes d'ordre 3. 51 #3177
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- Rim, Dock Sang (with Vitulli, Marie A.) Weierstrass points and monomial curves. 56 #15652
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- Wakabayashi, Isao On the logarithmic Kodaira dimension of the complement of a curve in P^2 . 58 #16683
- Wallace, Andrew H. Three types of equisingularity for curves. 55 #5641
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- Albert, Daniel (with Maltiniotis, Georges) Groupe fondamental du complément d'une courbe à points doubles ordinaires. (52 #3170 (EA 53))
- Chéniot, Denis Le théorème de Van Kampen sur le groupe fondamental du complémentaire d'une courbe algébrique projective plane. (51 #5603)
- Duma, Andrei Weierstraß-Punkte und kanonische Familien von Riemannschen Metriken auf regulären Familien kompakter Riemannscher Flächen. II. (52 #361)
- Fischer, Klaus G. The module decomposition of $I(\bar{A}/A)$. (49 #2716)
- Hironaka, Heisuke Schemes, etc. (52 #13839)
- Kmetz, François Resolution des singularités des courbes. (52 #11105)
- Kuo, Tzee-Char (with Lu, Yung Chen) On analytic function germs of two complex variables. (57 #704)
- Lax, Robert F. Weierstrass points of products of Riemann surfaces. (55 #5906)
- Lebowitz, Aaron Handle removal on a compact Riemann surface of genus 2. (48 #4303)
- Lejeune-Jalabert, Monique ★Sur l'équivalence des courbes algébriques planes. Coefficients de Newton. Contribution à l'étude des singularités du point de vue du polygone de Newton. (52 #800a)
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- Maltiniotis, Georges See Albert, Daniel, (52 #3170 (EA 53))
- Martens, Henrik H. On the partial derivatives of theta functions. (49 #8998)
- Moh, Tzuong-Tsieng On approximate roots of a polynomial. (52 #10744)
- Namikawa, Yukihiko (with Ueno, Kenji) The complete classification of fibres in pencil of curves of genus two. (51 #5595)
- Pham, Frédéric Déformations équisingulières des idéaux Jacobiens de courbes planes. (52 #798)
- Pinkham, Henry C. Deformations of cones with negative grading. (50 #323)
- Stefek, Manfred Berechnung der Singularitäten und Extrema einer speziellen Klasse von algebraischen Kurven. (55 #2881)
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- Ueno, Kenji See Namikawa, Yukihiko, (51 #5595)
- Wahl, Jonathan M. Equisingular deformations of plane algebroid curves. (54 #7460)
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- Bulataev, K. B. Estimate of the rank of a hyperelliptic curve of genus two. (Russian) (See RZMat 1971 #4 A429)
- Čerednik, I. V. Uniformization by discrete subgroups of $PGL_2(k_w) \times PSL_2(k_w)$. (Russian) 54 #12783
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 ecillas Pishmish, Sevin Maps between Hurwitz spaces. **50** #13050
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 urin, A. N. Corrections to the paper: "The geometry of the Poincaré divisor of a Prym variety" (Izv. Akad. Nauk. SSSR Ser. Mat. **39** (1975), no. 5, 1003-1043). (Russian) **57** #16314
 illamayor, Orlando E. See Platzeck, Maria Inés, **47** #6708

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éniot, Denis Le groupe fondamental du complémentaire d'une hypersurface projective complexe. **(52** #393)
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- Molnar, Richard K.** Semi-direct products of Hopf algebras. **58** #16700
- Morris, Robert A.** (with Pareigis, Bodo) Formal groups over discrete rings. **48** #302
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- Norman, Peter** An algorithm for computing local moduli of abelian varieties. **52** #10757
- Novikov, S. P.** See **Buhstaber, V. M.**, **45** #253
- Oberst, Ulrich** (with Schneider, Hans-Jürgen) Untergruppen formeller Gruppen von endlichem Index. **50** #13057
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- Sen, Shankar** Lie algebras of Galois groups arising from Hodge-Tate modules. **47** #3403
- Shay, P. Brian** Representatives for P -typical curves. **55** #2933 (E **57** #6034)
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- Todorova, Grozdena Hr.** Formal group laws of elliptic curves over a local field. (Russian) **51** #3182
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- Traverso, Carlo** p -divisible groups over fields. **49** #9001
- Tyc, Andrzej** Witt groups of commutative formal groups. (Russian summary) **53** #451
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- Vvedenskii, O. M.** The "universal norms" of formal groups defined over the ring of integers of a local field. (Russian) **49** #307
- Waterhouse, William C.** The heights of formal A -modules. **50** #338
- Yamasaki, Yohei** On the endomorphism rings of Honda groups $H_{n,m}$ over p -adic integer rings. **52** #10758
- Secondary classifications:
- Adams, John Frank** (with Liulevicius, Arunas) Buhstaber's work on two-valued formal groups. **52** #11956
- Araki, Shōrō** ★Typical formal groups in complex cobordism and K -theory. (51 #11549)
A typical formal group in K -theory. (49 #3997)
[p]-typical formal groups and the homomorphism $\Omega_*^U \rightarrow \Omega_*^{SO}$. (50 #8569)
- Baas, Nils Andreas** On formal groups and singularities in complex cobordism theory. (49 #11547c)
- Berthelot, Pierre** Slopes of Frobenius in crystalline cohomology (52 #3167)
- Buhstaber, V. M.** (with Miščenko, A. S.; Novikov, S. P.) Formal groups and their role in the apparatus of algebraic topology. (Russian) (56 #3862)
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(with Miščenko, A. S.) Lectures on intrinsic homology and formal groups. (Russian) (57 #10715)
Two-valued formal groups in the apparatus of cobordism theory. (Russian) (58 #13088)
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- Cartier, Pierre** Groupes formels, fonctions automorphes et fonctions zeta des courbes elliptiques. (55 #2929)
- Čerednik, I. V.** On a question about the Šafarevič mapping. (Russian) (50 #4542)
- Hazewinkel, Michiel** A universal isomorphism for p -typical formal groups and operations in Brown-Peterson cohomology. (53 #6535)
- Honda, Taira** On the formal structure of the Jacobian variety of the Fermat curve over a p -adic integer ring. (51 #3178 (E **57** #9704))
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- Kaplansky, Irving** ★Bialgebras. (55 #8087)
- Karoubi, Max** Cobordisme et groupes formels (d'après D. Quillen et T. tom Dieck). (54 #1263)
- Katz, Nicholas M.** Formal groups and p -adic interpolation. (56 #319)
- Konovalov, G. T.** The multidimensional Šafarevič-Serre theorem. (Russian) (47 #8491)
- Kozma, Ilan** Witt vectors and complex cobordism. (50 #8571)
- Lenstra, Hendrik W., Jr.** (with Oort, Frans) Simple abelian varieties having a prescribed formal isogeny type. (50 #7163)
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- Lubin, Jonathan** (with Rosen, Michael I.) The norm map for ordinary Abelian varieties. (58 #10936)
- Mazur, Barry C.** (with Messing, William) ★Universal extensions and one dimensional crystalline cohomology. (51 #10350)
- Messing, William** The universal extension of an abelian variety by a vector group. (49 #2760)
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- Miščenko, A. S.** See **Buhstaber, V. M.**; et al., (56 #3862) and **Buhstaber, V. M.**, (57 #10715)
- Nakaoka, Minoru** Classical theorems of topology, and formal groups. (Japanese) (54 #8679)
- Novikov, S. P.** See **Buhstaber, V. M.**; et al., (56 #3862)
- Oort, Frans** Lifting an endomorphism of an elliptic curve to characteristic zero. (49 #5019)
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- Ravenel, Douglas C.** Multiplicative operations in BP^*BP . (52 #1696)
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- Vostokov, S. V.** An explicit formula for pairing in formal modules. (Russian) (58 #16612)
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- Bombieri, Enrico** (with Lang, Serge) Analytic subgroups of group varieties. (45 #5089)
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- (Anantharaman, Sivaramakrishna) See Sur les groupes algébriques, (47 #6714)
- Borel, Armand (with Tits, Jacques) Compléments à l'article: "Groupes réductifs". (47 #3556)
(with Tits, Jacques) Homomorphismes "abstraits" de groupes algébriques simples. (47 #5134)
- Cassidy, Phyllis Joan The differential rational representation algebra on a linear differential algebraic group. (53 #13181)
- Chase, Stephen U. Infinitesimal group scheme actions on finite field extensions. (54 #12731)
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- Douai, Jean-Claude Sur la 2-cohomologie galoisienne des groupes algébriques. (48 #4138)
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- Fauntleroy, Amassa Rational points of commutator subgroups of solvable algebraic groups. (50 #2353)
- Hesselink, Wim H. Singularities in the nilpotent scheme of a classical group. (55 #2885)
- Humphreys, James E. On the hyperalgebra of a semisimple algebraic group. (57 #6211)
- Kambayashi, Tatsuji (with Miyanishi, Masayoshi) ★On forms of the affine line over a field. (57 #6040)
- Lipman, Joseph The Picard group of a scheme over an Artin ring. (58 #10938)
- (Luna, Domingo) See Sur les groupes algébriques, (47 #6714)
- Magid, Andy R. Analytic subgroups of affine algebraic groups. (57 #12709)
Brauer groups of linear algebraic groups with characters. (58 #5619)
- Merzljakov, Ju. I. ★Рациональные группы. Часть 1: Алгебраические группы матриц (Russian) [Rational groups. Part 1: Algebraic matrix groups] (47 #8708a)
★Рациональные группы. Часть 2: Абстрактные алгебраические группы. (Russian) [Rational groups. Part 2: Abstract algebraic groups] (47 #8708b)
- Miyanishi, Masayoshi On homogeneous spaces and the first cohomology of group schemes. (Japanese) (57 #6008)
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Some remarks on algebraic homogeneous vector bundles. (50 #13036)
See also Kambayashi, Tatsuji, (57 #6040)
- Morgan, Christopher L. Autoaddition formulae and algebraic groups. (54 #10277)
- Newman, Kenneth The coalgebra structure of Hopf algebras. (58 #16750)
- Rousseau, Guy ★Immeubles des groupes réductifs sur les corps locaux. (58 #11158)
- Rozenberg, A. L. Duality theorems for groups and Lie algebras. (Russian) (53 #10884)
- Shigano, Hiroshi A correspondence between observable Hopf ideals and left coideal subalgebras. (58 #5759)
- Simon, Anne-Marie Déformations des groupes unipotents commutatifs. (46 #3514)
- Spaltenstein, Nicolas On the fixed point set of a unipotent element on the variety of Borel subgroups. (56 #5735)
- Stein, Michael R. Surjective stability in dimension 0 for K_2 and related functors. (48 #6267)
- Strano, Rosario Cohomology of an affine group scheme over a Hensel ring. (58 #16670)
- Sullivan, John Brendan Representations of the hyperalgebra of an algebraic group. (58 #813)
- Takeuchi, Mitsuhiro Tangent coalgebras and hyperalgebras. I. (52 #10725)
A characterization of the Galois subalgebras $H_*(K/F)$. (56 #5513)
Groups of algebras over $A \otimes \bar{A}$. (58 #22151)
- Tits, Jacques See Borel, Armand, (47 #3556) and Borel, Armand, (47 #5134)
- Voskresenskii, V. E. Stable equivalence of algebraic tori. (Russian) (49 #7261 (E 57 #12534))
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- Algebraic groups See Sur les groupes algébriques, (47 #6714)
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- Berthelot, Pierre Systèmes de Honda des schémas en F_q -vectoriels. **58** #16704
- Chase, Stephen U. On a variant of the Witt and Brauer groups. **58** #16705
- Childs, Lindsay N. (with Magid, Andy R.) The Picard invariant of a principal homogeneous space. **49** #5021
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- Milne, James Stuart On a theorem of Mazur and Roberts. **49** #2771
- Oberst, Ulrich (with Schneider, Hans-Jürgen) Über Untergruppen endlicher algebraischer Gruppen. (English summary) **50** #339

Oort, Frans Finite group schemes, local moduli for abelian varieties, and lifting problems. **46** #186

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Raynaud, Michel Schémas en groupes de type (p, \dots, p) . **54** #7488

Šafarevič, I. R. On some infinite-dimensional groups. **58** #5697

Schneider, Hans-Jürgen Bemerkung zu einer Arbeit von Tate-Oort. (English summary) **50** #340

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Secondary classifications:

Bester, Michal Local flat duality of abelian varieties. (**58** #28005)

Kouider, Mekkia Groupes formels isogènes à un groupe donné. (English summary) (**56** #374)

Mil'ner, A. A. Irreducible representations of modular Lie algebras. (Russian) (**54** #7567)

Morris, Robert A. Cohomology of inseparable field extensions. (**48** #277)

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Shatz, Stephen S. ★Profinite groups, arithmetic, and geometry. (**50** #279)

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Magid, Andy R. Covering spaces of algebraic groups. **54** #10283

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Douai, Jean-Claude 2-cohomologie galoisienne des groupes semi-simples définis sur les corps locaux. (English summary) (**53** #5540)

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Ahiezer, D. N. Dense orbits with two endpoints. (Russian) **57** #12537

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Fogarty, John Fixed point schemes. **48** #11130 (EA 49)

Haboush, William J. Deformation theoretic methods in the theory of algebraic transformation spaces. **52** #419

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- Witt, Günther** Zwei Klassen algebraischer Varietäten 3. Ordnung und deren Homologiegruppen. 56 #5585
- Witt, Thierry** Sur la théorie des invariants des groupes classiques. (English summary) 53 #8082

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- Witt, Winfried** Die Divisorenklassengruppe der Restklassenringe von Polynomringen nach Determinantenidealen. (52 #13786)
- Witt, Alberto** (with Murre, Jacob P.) The intermediate Jacobian of a cubic threefold with one ordinary double point; an algebraic-geometric approach. I. (58 #16694a)
 (with Murre, Jacob P.) The intermediate Jacobian of a cubic threefold with one ordinary double point; an algebraic-geometric approach. II. (58 #16694b)
- Witt, David** Notes on an extension of Krull's principal ideal theorem. (52 #13798)
- Witt, Michael H.** Surgery on codimension 2 submanifolds. (56 #13231)
- Witt, Robert** (with Grams, Anne P.) Finite intersections of quotient rings of a Dedekind domain. (53 #5559)
- Witt, Anne P.** *See Gilmer, Robert, (53 #5559)*
- Witt, Eloise** On the R -invariance of $R[x]$. (53 #8036)
- Witt, Melvin** (with Roberts, Joel L.) The purity of the Frobenius and local cohomology. (54 #5230)
- Witt, V. A.** Fano varieties of the first kind. (Russian) (58 #16688)
- Witt, Basanavappa S.** Lie algebra bundles. (French summary) (58 #18441)
- Witt, V. Ja.** Algebraic functions with a universal discriminant variety. (Russian) (45 #5404)
- Witt, Jacob P.** *See Collino, Alberto, (58 #16694a) and Collino, Alberto, (58 #16694b)*
- Witt, G. A.** Non-Archimedean uniformization. (Russian) (57 #16318)
- Witt, Kōichi** Differential geometry of algebraic manifolds. (48 #1123)
- Witt, Joel L.** *See Hochster, Melvin, (54 #5230)*
- Witt, Jacob** Two new functors from modules to algebras. (57 #9735)
- Witt, C. K.** A flat group scheme G for which X^G is not representable. (54 #10282)

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14N05 Projective techniques

- Agafonov, G. L. Oblique perspective in five-dimensional projective space. (Russian) 51 #10358
- Bernardi, Marco (with Tazzi Cantalupi, Gabriella) Fibrizioni generalizzate di uno spazio proiettivo complesso. 50 #13064
- Bernardini, Adele Trilinearità fra tre spazi proiettivi. 53 #10824
- Bottema, Oene Die Direktrixkongruenz der Kegelschnitte des Plückerschen Konoids. (Serbo-Croatian summary) 50 #13065
- Casazza, Enrica Sulle superficie cubiche dotate di un gruppo continuo di omografie avente dimensione massima. (English summary) 48 #3978
- Cavalleri D'Oro, Luigi Sulle involuzioni piane più volte infinite involuzioni degeneri. 49 #310
- Čegodaev, A. I. Sterographic mapping of a hypercubic of four-dimensional space onto a two-dimensional plane. (Russian) 51 #10359
- Stereographic mapping of a ruled quartic with a plane of symmetry. (Russian) 52 #425
- Cheung, Alan (with Crapo, Henry H.) A combinatorial perspective on algebraic geometry. 54 #10290
- Chiari, Nadia Sul massimo numero di punti singolari di una superficie di sesto ordine con un punto quadruplo. (English summary) 48 #11134
- Crapo, Henry H. See Cheung, Alan, 54 #10290
- De Resmini, M. J. On quartics in a plane over a field of characteristic 2. 49 #7270
- Dye, R. H. The hypersculating spaces to certain curves in $[n]$. 51 #10360
- Edge, W. L. Osculatory properties of a certain curve in $[n]$. 50 #2188
- The osculating spaces of a certain curve in $[n]$. 50 #2189
- A footnote on the mystic hexagram. 51 #528
- Cubic primals in $[4]$ with polar heptahedra. 58 #10944
- Épstein, I. Š. Mapping four-dimensional projective space onto the plane. (Russian) 52 #13869
- Gerasimova, I. S. The mapping of one three-dimensional projective space onto another by a projection in a four-dimensional hypernet of lines. (Russian) 51 #3188
- Giacalone, Angela Sull'involuppo dei diametri di una cubica piana. 52 #10761
- Godeaux, Lucien Sur les points d'Eckardt d'une surface cubique. II. 46 #7251
- Recherches sur la structure des points de diramation d'une surface algébrique multiple. 46 #1801
- Sur les homographies cycliques de l'espace. 47 #6716
- Un point de diramation d'une surface algébrique multiple en lequel le cône tangent se scinde en quatre parties. 49 #5022
- Une surface algébrique dont le système canonique contient des composantes fixes non exceptionnelles. 49 #309
- Variétés algébriques dont les sections hyperplanes sont privées de variété canonique. 49 #5023
- Involutions cycliques rationnelles appartenant à des surfaces à système canonique irréductible. (Italian summary) 50 #7181
- Grimm, Wolfgang ★Über Flächen mit zwei Scharen von kubischen Asymptotenlinien. 50 #9883
- Günther, Helmut See Korczak, Eugeniusz, 50 #7182
- Haupt, Otto Untere Schranken für die Anzahl der \mathbb{C} -singulären Punkte ebener Bogen und Kurven. 52 #426
- Hohenberg, Fritz Isogonalkreis und Isogonalkreis zweier Kreise, Isogonalkreis 1. und 2. Art dreier Kreise. (English summary) 53 #13250
- Projektive Büschel konzentrischer gleichseitiger Hyperbeln. (English summary) 54 #5263
- Ivlev, E. T. (with Lučnin, A. A.) The polar correspondence with respect to an algebraic hypersurface, and its applications. (Russian) 57 #9710
- Kazakova, G. G. A certain representation of projective four-space on the plane, and its connection with Lie circular transformations. (Russian) 54 #326
- Komara, Imrich Degree of the inverse curve in the projective space of Lagrange-Sylvester polynomials. (Slovak. Russian and loose English summaries) 49 #2775
- Korczak, Eugeniusz (with Günther, Helmut) Über einige Eigenschaften einer speziellen algebraischen Fläche sechster Ordnung. 50 #7182
- Kosticyn, V. N. The system of the k -secants that have multipoint contacts with a normcurve. (Russian) 52 #5692
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- Krys, Jaromír Point configurations of a plane cubic. III. (Czech. German and loose Russian summaries) 56 #5586
- Kuznecova, V. A. See Skopec, Zalman, 54 #327
- Libgober, A. S. Numerical characteristics of systems of lines on complete intersections. (Russian) 48 #11135
- Llovet, Juan Note on the determination of the branches of an analytic curve. (Spanish) 46 #7550
- Longuet-Higgins, Michael S. Inversive properties of the plane n -line, and a symmetric figure of 2×5 points on a quadric. 52 #8139
- Lučnin, A. A. See Ivlev, E. T., 57 #9710
- Mandan, Sahib Ram Geometry of a tetrahedron inscribed in a twisted cubic. 55 #5651
- Degenerate tetrahedra of Moebius tetrahedra. 58 #28014
- Metelka, Josef Sur les variétés de base simples des transformations de Cremona. (Russian and Czech summaries) 46 #9054
- Miglio, Maria Su un complesso di rette dell' S_4 . 48 #2150
- Muleškov, A. S. See Popov, E. S., 55 #2944
- Niče, Vilko Die Direktrixkongruenz der Kegelschnitte des Plückerschen Konoids. (Serbo-Croatian summary) 47 #8559
- d'Orgeval, Bernard À propos d'une configuration de droites et de points. 46 #1802
- Pevzner, S. L. Geometry of a nondegenerate null-system in a non-Euclidean space. (Russian) 53 #8083
- Popov, E. S. (with Muleškov, A. S.) A certain projective property of curves of degree two. (Bulgarian. Russian and English summaries) 55 #2944
- Potoskuev, E. V. A representation of projective three-space on the plane by means of lines of a certain special hypernet. (Russian) 51 #3189
- Oblique projection in six-dimensional projective space, and a model of five-dimensional space. (Russian) 53 #459
- de Resmini, Mariailuisa J. Sulle quartiche piane sopra un campo di caratteristica 46 #9055
- Rosina, Bellino Antonio Sulla esistenza e sulla costruzione effettiva con la "piccola variazione" delle curve algebriche piane con assi di simmetria obliqua e in particolare ortogonale. II, III. (French summaries) 46 #3519
- Rybakov, V. N. Mapping of surfaces and congruences in P_3 . (Russian) 57 #3145
- Schlemann, Günther Zur Homöomorphie algebraischer Hyperflächen. 56 #5587
- Semple, J. G. (with Tyrrell, J. A.) Normal elliptic scrollar varieties. 51 #10361
- Skopec, R. Z. A mapping of six-dimensional affine space onto an affine 3-space. (Russian) 54 #328
- Construction of a plane model of five-dimensional projective space P^5 by means of the Segre variety V_3^2 . (Russian) 54 #329
- Skopec, Zalman (with Kuznecova, V. A.) A mapping of the straight lines of the space onto the plane into twice punctured conics with a fixed point. (Russian) 54 #327
- Stoljarova, L. P. The multidimensional analogue of a hyperboloid. (Russian) 53 #44
- Application of multielement anharmonic pencils to the synthetic representation of algebraic congruences and complexes in n -dimensional projective space S_n . (Russian) 53 #13251
- Tazzi Cantalupi, Gabriella See Bernardi, Marco, 50 #13064
- Tefova, E. L. Analytic calculation of the coordinates of lines under a skew mapping P_4 . (Russian) 55 #2945
- Timmermann, Horst Hyperebenenewebe und elliptische Kurven. 58 #10945
- Eine Bemerkung über den speziellen Bézoutschen Satz. (English summary) 57 #344
- Tyrrell, J. A. See Semple, J. G., 51 #10361
- Villa, Mario Un'omografia fra più di due spazi proiettivi. (English summary) 48 #2188
- Wall, C. T. C. Nets of conics. 55 #5652
- Weiß, Gunter Die algebraischen Konoide mit ebener Striktionslinie. (English summary) 53 #2970
- Witeczyński, Krzysztof Conditions géométriques de cyclicité des collinéations projectives de l'espace P^n . 55 #12742

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- Becker, Erhard ★Ein Beitrag zur interaktiven Verarbeitung analytisch beschreibbarer Flächen mittels Rechner-Graphik. (58 #12661)
- Beltrametti, Mauro Alcune osservazioni intorno al contatto di ipersuperficie lungo sottovarietà multiple. (52 #10729)
- Benz, Walter Über eine Cremonasche Raumgeometrie. (58 #23987)
- Cicchese, Marcello Sulle cubiche di un piano lineare $S_{2,q}$ con $q \equiv 1 \pmod{3}$. (46 #9047)
- Crapo, Henry H. A combinatorial perspective on algebraic geometry. (Italian summary) (58 #27570)
- Dočkal, Ljerk Die Striktionslinienfläche eines linearen Regelfächensystems 2. Ordnung. (Serbo-Croatian summary) (50 #1111)
- Drechsler, Konrad (with Sterz, Ulrich) Punkt-Linien-Superskulanten-Kegelschnitte. (57 #16297)
- Eneva, Gergana Certain questions on the theory of a third order norm-surface in four-dimensional projective space. (Russian. German summary) (47 #3402)
- Fleischer, A. Ruled orbits in P_3 , and their homogeneous spaces. (Russian. Estonian and German summaries) (54 #6034)
- Freeman, J. W. On the Grassmanian of lines in $PG(4,q)$ and $R(1,2)$ reguli. (51 #13849)
- Gerasimova, I. S. (with Medvedeva, L. B.) Mapping of space P_4 onto P_2 by straight lines of the parabolic hypernet $[1, 2]$. (Russian) (58 #2610)
- Godeaux, Lucien Construction de variétés algébriques dépourvues de variété canonique. (Italian summary) (49 #295)
- Surfaces algébriques régulières possédant une courbe canonique d'ordre zéro et quatre points doubles coniques. (47 #6711)
- Griffiths, Gareth J. A note concerning a statement of Holcroft. (45 #1032)
- Griffiths, Phillip (with Harris, Joseph) A Poncelet theorem in space. (58 #16695)
- Gudkov, D. A. Construction of a sixth order curve of type $\frac{1}{2}5$. (Russian) (47 #7678)
- Harris, Joseph See Griffiths, Phillip, (58 #16695)
- Hohenberg, Fritz Drei Paare von Torusflächen, die einen Kugelschnitt gemein haben. (49 #9728)
- Ignatenko, V. F. (with Leibin, A. S.) On the theory of planes of orthogonal symmetry of surfaces in E^n . (Russian) (48 #1059)
- (with Leibin, A. S.) The diametral planes of an algebraic surface in the space E^n . (Russian) (53 #5609)
- Iskovskih, V. A. Birational automorphisms of the Fano 3-fold V_3^2 . (Russian) (57 #3144)
- Krames, Josef Über die Kugelschnitte der Darboux'schen Zykliken vierter Ordnung. (49 #1312)
- Über kubische Zykliken. (55 #5644)
- Krzyżanowski, Włodzimierz A certain generalization of the stereographic projection of second order algebraic surface. (Polish. English summary) (50 #11004)
- A certain generalization of the stereographic projection of a second order conic surface. (Polish. English summary) (50 #11005)
- Leibin, A. S. See Ignatenko, V. F., (48 #1059) and Ignatenko, V. F., (53 #5609)
- Medvedeva, L. B. See Gerasimova, I. S., (58 #2610)
- Muran, K. V. (with Skopec, Zalman) A mapping of three-dimensional projective space onto the plane by means of a second order line congruence of class one. (Russian) (54 #7464)
- Nepomnjaščaja, T. Ja. Multidimensional analogues of the Brianchon theorem. (Russian) (58 #2593)
- Niče, Vilko Der kubische Nullraum zweier linearen Kongruenzen. (Serbo-Croatian summary) (58 #2594)
- Oboňa, Jozef (with Podtjagin, Nikolaj) Some further properties of curves of class I

(Slovak. French summary) (46 #4378)

Itjagin, Nikolaj See **Oboňa, Jozef**, (46 #4378)

Renschuch, Bodo Zur Klassifizierung Veronesescher Projektionsideale. (55 #363)

Serts, Joel L. Singularity subschemes and generic projections. (54 #10265)

Siyal, Arun Associated set of $n+1$ lines in n -dimensional projective space.

(57 #13677)

Štrick-Čudovan, Vlasta Das (F_2^2) Flächenbüschel und eine Möglichkeit des Eintauchens des (MK) in den (VN) Komplex. (Serbo-Croatian summary) (57 #13684)

Tre, Beniamino (with Bartocci, Umberto) Ovali ed altre curve nei piani di Galois di caratteristica due. (45 #4269)

Tsiper, Zalman See **Muran, K. V.**, (54 #7464)

Ustüvöhh, V. Lie subgroups with maximal two-dimensional nonruled orbits in complex $P_3(\mathbb{C})$. (Russian. Estonian and German summaries) (54 #5387)

Vrz, Ulrich See **Drechsler, Konrad**, (57 #16297)

Švarova, L. P. An application of anharmonic ranges in space to the determination and construction of algebraic curves and surfaces. (Russian) (54 #12785)

Trin, A. N. The intersection of quadrics. (Russian) (54 #12791)

Trin, G. A. Construction of a certain M -surface of order four in RP^3 . (Russian) (50 #1256)

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4N10 Enumerative problems

Babbage, D. W. "Canonical forms for general polynomials" (J. London Math. Soc. (2) 10 (1975), no. 3, 271–280)—a note on a paper by Stefano Guazzzone. 54 #5264

Trammetti, Mauro Necessary conditions for hypersurfaces contact. 54 #5265

Trammetti, Mauro The number of quadrics in n -dimensional affine and projective space. (Russian. Georgian summary) 58 #10946

Tre, W. L. Binary forms and pencils of quadrics. 51 #10362

Freudenthal, H. The connection between the E_7 -geometry and the configuration of the 28 double tangents to a fourth order curve. (Russian) 57 #16328a

See also **Manin, Ju. I.**, 57 #16328b

Manin, Ju. I. Valeurs critiques des polynômes. (English summary) 53 #10825

Guazzzone, Stefano Canonical forms for general polynomials. 52 #3183 (E 54 #5264)

See also **Babbage, D. W.**, 54 #5264

Ignatenko, V. F. On the estimation of the number of principal diametral planes in an algebraic surface of the space E^m . (Russian) 46 #5343

Ng, Fuanglada Riddhagni On conics over a finite field. 52 #3184

Leibman, Steven L. (with Laksov, Dan) Schubert calculus. 48 #2152

Problem 15: rigorous foundation of Schubert's enumerative calculus. 55 #2946

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Laksov, Dan See **Kleiman, Steven L.**, 48 #2152

Lascoux, Alain Puissances extérieures, déterminants et cycles de Schubert. 51 #529

Lascoux, Alain Tableaux de Young gauches. 55 #12743

Lascoux, Alain Sistemi lineari di divisori sulle curve e sulle superficie. (French summary) 57 #6041

Manin, Ju. I. Letter to the editors: Corrections to my translation of "The connection between the E_7 -geometry and the configuration of the 28 double tangents to a fourth order curve" by H. Freudenthal (Uspehi Mat. Nauk 31 (1976), no. 5 (191), 148–152). (Russian) 57 #16328b

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Manin, Ju. I. Postulation formula for Schubert varieties. 48 #8515

Manin, Ju. I. (with Simonis, J.) A secant formula. 54 #7492

Manin, Ju. I. Numerical characters of a curve in projective n -space. 58 #22095

Manin, Ju. I. Su due coni relativi ad una trasformazione puntuale fra due S_3 . (English summary) 55 #364

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Manin, Ju. I. See **Peters, C. A. M.**, 54 #7492

Manin, Ju. I. On varieties in multiple-projective spaces. 58 #710

Manin, Ju. I. Die Schmiegräume an die Segre-Mannigfaltigkeiten. (English summary) 56 #8588

Manin, Ju. I. Die Schmiegräume an die Segre-Mannigfaltigkeiten. (English summary) 56 #8588

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Manin, Ju. I. ★Algebraic space curves. (53 #2960)

Manin, Ju. I. (with Kleiman, Steven L.) Foundations of the theory of Fano schemes. (58 #27967)

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$y^2 = -(1/3)(x^2 + x + 1)(3x^3 + 4x^2 + 3x)$, $y^2 = (x^2 + 3x + 1)(-1 + 6x^2 - x^4)$. (Russian) (54 #2665)

Manin, Ju. I. A Moebius-like formula in the Schubert calculus. (54 #7458)

Manin, Ju. I. Pencils of elliptic quartics and an identification of Todd's quartic combinator. (55 #10470)

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Manin, Ju. I. When do the determinantal ideals define Gorenstein rings? (50 #13015)

Manin, Ju. I. Zur geometrischen Bedeutung der Gruppen der automorphen Kollinationen einer harmonischen und äquianharmonischen kubischen Kurve. (Russian and Czech summaries) (58 #7353)

Manin, Ju. I. Grassmannians and their Schubert subvarieties are arithmetically Cohen-Macaulay. (47 #3383)

Manin, Ju. I. (with Leibin, A. S.) The algebraic surfaces in E^4 that have the symmetry of a regular four-dimensional simplex and a regular four-dimensional 600-tope. (Russian) (46 #5339)

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m -dimensional simplex. (Russian) (51 #576)

Manin, Ju. I. (with Ingletton, A. W.; Lascu, Alexandru) On a formula of D. B. Scott. (51 #8112)

Ingletton, A. W. See **Ilori, Samuel A.**; et al., (51 #8112)

Iversen, Birger On the exceptional tangents to a smooth, plane curve. (46 #181)

Kempf, George R. (with Laksov, Dan) The determinantal formula of Schubert calculus. (49 #2773)

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The enumerative theory of singularities. (58 #27960)

See also **Altman, Allen B.**, (58 #27967)

Koch, Philip O. On the product of Schubert classes. (49 #2774)

Laksov, Dan The arithmetic Cohen-Macaulay character of Schubert schemes. (46 #9051)

The arithmetic Cohen-Macaulay character of Schubert schemes. (52 #3182)

Some enumerative properties of secants to non-singular projective schemes. (55 #10456 (EA 55/56))

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Lascoux, Alain Intersection de cycles de Schubert. (57 #342)

Lascu, Alexandru See **Ilori, Samuel A.**; et al., (51 #8112)

Laumon, Gérard Degré de la variété duale d'une hypersurface à singularités isolées. (54 #2650)

Leibin, A. S. See **Ignatenko, V. F.**, (46 #5339) and **Ignatenko, V. F.**, (51 #576)

Matuatat, Elisabeth See **Renschuch, Bodo**, (56 #3009)

Moh, Tzuong Tsieng On the unboundedness of generators of prime ideals in power series rings of three variables. (50 #7158)

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Rettel, Jürgen Über Syzygienkette und Hilbertfunktion eines durch die r -zeiligen Determinanten einer r -zeiligen Matrix erze der Voraussetzung seines Höchststranges. (54 #12796)

Stanley, Richard P. Some combinatorial aspects of the Schubert calculus. (57 #5766)

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Tango, Hiroshi On $(n-1)$ -dimensional projective spaces contained in the Grassmann variety $Gr(n, 1)$. (51 #8132)

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Whiteley, Walter Logic and invariant theory. I. Invariant theory of projective properties. (56 #5279)

Zirilli, Francesco See **de Vito, Paola**, (58 #6038)

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Godeaux, Lucien Sur les surfaces algébriques possédant un faisceau de courbes

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Godeaux, Lucien Construction de surfaces algébriques dont le système canonique contient des parties fixes non exceptionnelles. 46 #1790

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appartenant à une surface algébrique. I, II. 46 #3521

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(with Leibin, A. S.) On the general equation of an algebraic surface in E^4 with the symmetry of a regular 24-hedron. (Russian) 48 #6126

Leibin, A. S. See **Ignatenko, V. F.**, 45 #5130 and **Ignatenko, V. F.**, 48 #6126

Rohlin, V. A. Proof of a conjecture of Gudkov. (Russian) 45 #5131

Congruences modulo 16 in Hilbert's sixteenth problem. (Russian) 47 #232

Stratopoulos, G. M. (with Wylie, C. Ray) A new series of line involutions in S_3 . 45 #5132

Strubecker, Karl Über die Kugelschnitte des Torus. 46 #1803

Wylie, C. Ray See **Stratopoulos, G. M.**, 45 #5132

Secondary classifications:

Bilo, J. An involutory birational transformation of order five. (Dutch. English summary) (46 #9042)

Borchers, Hans-Jürgen (with Hegerfeldt, Gerhard C.) Über ein Problem der

Relativitätstheorie: Wann sind Punktabbildungen des R^n linear? (46 #8619)

Clemens, C. Herbert (with Griffiths, Phillip) The intermediate Jacobian of the cubic threefold. (46 #1796)

Demaria, Davide Carlo Sui sistemi continui d'ipersuperficie effettive appartenenti ad una varietà algebrica non singolare. (46 #7246)

Godeaux, Lucien Une variété algébrique à trois dimensions à sections hyperplanes de bigne un. (46 #5338)

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algébrique. II. (46 #5340)

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Gudkov, D. A. The topology of real projective algebraic varieties. (Russian) (53 #2936 (E 53 #2937))

Letter to the editors: "Topology of projective algebraic varieties" (Uspehi Mat.

Nauk 29 (1974), no. 4(178), 3–79). (Russian) (53 #2937)

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Kantor, I. L. The cross ratio of four points and other invariants on homogeneous spaces

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Krames, Josef Über die Loxodromen vierter Ordnung auf Kreisringflächen. (46 #5336)

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Polotovskii, G. M. A catalogue of M -splitting curves of order six. (Russian) (57 #333)

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15-XX LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY (finite and infinite)

Secondary classifications:

Bourbaki, Nicolas ★Elements of mathematics. Algebra, Part I: Chapters 1-3. (50 #6689)

Hald, Ole Hansen A converse to the Bauer-Fike theorem. (50 #6132)

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Collection:

Reviews on algebra for the years 1941/1946 ★Алгебраический реферативный сборник за 1941-1946 гг. Вып. 1: Алгебра полиномов. Линейная алгебра. Теория полей. Теория колец и алгебр. (Russian) [A collection of reviews on algebra for the years 1941-1946. No. 1: Algebra of polynomials. Linear algebra. Theory of fields. Theory of rings and algebras] (52 #10315 (EA 53))

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- Dombrowski, Peter ★Differentialrechnung I und Abriss der linearen Algebra. (50 #13385)
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15-03 Historical

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Crilly, Tony Cayley's anticipation of a generalised Cayley-Hamilton theorem. (French summary) (57 #5598)

(Hamilton, William Rowan) See van der Waerden, B. L., (54 #4896)

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- Renganathan, S. (with Ramaswami, B.) Comments on "A theorem on the Lyapunov matrix equation". (With author's reply). **46** #194b
- Richman, Daniel J. The singular graph of lower triangular, nilpotent matrices. **58** #10961
- Riveland, A. Allan (with Porter, A. Duane) The skew matrix equation $X'_n \cdots X'_1AX_1 \cdots X_n = B$. (Italian summary) **58** #5723
(with Porter, A. Duane) The skew metric equation $X'_n \cdots X'_1AX_1 \cdots X_n = B$. (Italian summary) **55** #8063
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- Rózsa, Pál Lineare Matrixgleichungen und Kroneckersche Produkte. **58** #22115
- Rudeanu, S. On Boolean matrix equations. **47** #8570
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- Smith, J. Denmead The general Cayley-Hamilton theorem via the easiest real case. **52** #10769

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- Varga, Richard S. A note on an open question on ω - and τ -matrices. **57** #12555
- Vetter, William J. Vector structures and solutions of linear matrix equations. **51** #553
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- Weber, R. P. See Dennis, J. E., Jr.; et al., **55** #5661
- Willems, Jan C. On the existence of a nonpositive solution to the Riccati equation. **55** #2958
- Wimmer, Harald K. (with Ziebur, Allen D.) Solving the matrix equation $\sum_{p=1}^r f_p(A) X g_p(B) = C$. **46** #7265
- (with Ziebur, Allen D.) Blockmatrizen und lineare Matrizengleichungen. **51** #3194
- On the algebraic Riccati equation. **54** #10298
- See also Flanders, Harley, **56** #5599 and Lancaster, Peter, **58** #28036
- Womack, Baxter F. See Montemayor, J. J., **58** #10962b
- Young, Samuel S. H. The Hurwitz matrix equations and multifactor groups. **52** #437
- Ziebur, Allen D. See Wimmer, Harald K., **46** #7265 and Wimmer, Harald K., **51** #3194
- Ziedan, I. E. Explicit solution of the Lyapunov-matrix equation. **55** #12747

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- Bakšalary, Jerzy K. (with Kala, Radosław) An extension of a rank-criterion for the least squares estimator to be the best linear unbiased estimator. (58 #24745)
- Brewer, John W. The derivative of the Riccati matrix with respect to a matrix. (58 #26274)
- Coppel, W. A. Matrix quadratic equations. (51 #3623)
- Datta, Biswa Nath Matrices satisfying Šiljak's conjecture. (56 #2506)
- Hodges, John H. Note on some partitions of a rectangular matrix. (Italian summary) (58 #259)
- Ranked partitions of rectangular matrices over finite fields. (Italian summary) (57 #12557)
- Hutchinson, Joan P. Eulerian graphs and polynomial identities for skew-symmetric matrices. (53 #7858)
- Kala, Radosław See Bakšalary, Jerzy K., (58 #24745)
- Kamei, Elzaburo (with Kato, Yoshinobu) On operator equations $AB + BA^* = A^*B + BA = I$. (58 #2385)
- Kato, Yoshinobu See Kamei, Elzaburo, (58 #2385)
- Kučera, Vladimír A contribution to matrix quadratic equations. (56 #8131)
- Lapins'kii, V. M. Functions of matrices. (Russian) (58 #23688)
- Leise, James A. See Tortorella, Michael, (58 #4082)
- Letterer, Jürgen Factorization of matrix-valued and operator-valued functions. (Russian. Georgian and English summaries) (58 #23689)
- Liu, C. K. See Ainsworth, O. R., (51 #958)
- Mereuca, I. V. A certain criterion for the regularity of a root of an operator equation that corresponds to a polynomial operator pencil. (Russian) (53 #3742)
- Morse, A. Stephen Minimal solutions to transfer matrix equations. (52 #16748)
- Newman, Morris (with Vartak, M. N.) Polynomials in a matrix. (53 #5526)
- A note on matrix equivalence. (57 #9723)
- Patel, R. V. (with Toda, Mitsuhiro) On norm bounds for algebraic Riccati and Lyapunov equations. (58 #9546)
- Raghavacharyulu, I. V. V. 2×2 cyclic matrices and Lucas polynomials. (50 #9836)
- Spain, P. G. Solving an operator equation by iteration. (57 #10469)
- Toda, Mitsuhiro See Patel, R. V., (58 #9546)
- Tortorella, Michael (with Leise, James A.) The unitarity equations for matrices and the problem of determining the scattering amplitude from the differential cross section. (58 #4082)
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- Wimmer, Harald K. Inertia theorems for matrices, controllability, and linear vibrations. (52 #15190)

15A27 Commutativity

- Ascoli, Renato (with Garola, Claudio; Solombrino, Luigi; Teppati, Giancarlo) Vector spaces over fields with a conjugation and linear-antilinear commutants. (Italian summary) **57** #6055
- Bernstein, Allen R. Almost eigenvectors for almost commuting matrices. **46** #1814
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- Freedman, H. I. Functionally commutative matrices and matrices with constant eigenvectors. **54** #5271
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- Kopáček, Jiří Correction to: "On pairs of matrices with property L " (Comment. Math. Univ. Carolinae **8** (1967) 453-457). **50** #4624
- Kuhn, Heinrich On commuting nilpotent matrices. **58** #28038
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- Robinson, Donald W. Matrices with zero trace as commutators of nilpotents. **57** #31
- Robinson, Norman F. (with Smiley, M. F.) A generalization of the property L . Motzkin and Tausky. **45** #3436
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- Winter, B. B. A counterexample in matrix analysis. **49** #7278
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15A30 Algebraic systems of matrices [See also 16A42, 20Gxx, 20Hxx.]

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- Beard, Jacob T. B., Jr. Matrix fields over prime fields. **47** #1824
- Beasley, Leroy B. (with Cummings, Larry J.) Permanent groups. II. **47** #8571
- Botta, Peter Linear maps that preserve singular and nonsingular matrices. **58** #5724
- Brenner, Joel Some simultaneous equations in matrices. **49** #2790
- Brignon, Pierre Étude d'un produit infini, périodique, de matrices. **45** #8663
- Buckhiester, Philip G. Gauss sums and the number of solutions to the matrix equation $XAX^T = 0$ over $GF(2^n)$. **48** #3991
- Burlacu, Eugen About a result of Moisil. **55** #8064
- Butler, William (with Kaplansky, Irving) A curious property of three-by-three matrices and an application to orders. **47** #3417
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- Derr, Leroy J. Triangular matrices with the isoclinal property. **47** #8572
- Djoković, Dragomir Ž. Positive semi-definite matrices as sums of squares. **56** #12030
- Drozd, Ju. A. Matrix problems, and categories of matrices. (Russian) **49** #5037
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- Leise, V. D. Some subrings of a full matrix ring. (Russian) **57** #16333
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Paasche, Ivan Drei Noten über Stirlingzahlen. **46** #5139

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Ramakrishnan, Alladi (with Jagannathan, R.) A new approach to matrix theory or many facets of the matrix decomposition theorem. **53** #8096

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Rowen, Louis Halle Standard polynomials in matrix algebras. **50** #2208

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Weĭ, Albert Linear transformations preserving the real orthogonal group. **52** #3193

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Banerjee, Kali S. (with Nagase, Goro) A note on the generalization of Cochran's theorem. (55 #4513)

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Djoković, Dragomir Ž. Artin-Schreier theory for positive-semidefinite symmetric or Hermitian matrices. (Serbo-Croatian summary) (57 #6061)

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Dubovoi, V. K. Invariant operator colligations. (Russian) (45 #5795)

Dymant, Z. M. The maximal commutative nilpotent subalgebras of nilpotency class 3 of a full matrix algebra. (Russian) (46 #206)

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Fulton, John D. Characterization and enumeration of linear classes of involutions over a finite field. (47 #3557)

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Gabel, Michael Randy (with Geramita, Anthony V.) Stable range for matrices. (50 #2151 (E 55 #335))

Gaines, Fergus (with Laffey, Thomas J.) Permutation matrices with normal sum. (54 #2768)

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Soltan, V. P. A class of finite-dimensional normed spaces. (Russian) (58 #30075)

Taussky, Olga Hilbert's theorem 90 in matrix rings. (47 #6760)

15A33 Matrices over special rings (quaternions, finite fields, etc.)

Abbasov, N. T. (with Orlovskaja, T. G.) The structure of quasialternion algebras and the fundamental involution in these algebras. (Russian. Azerbaijani summary) **50** #4625

Abrahamson, B. Are quaternions any use? **55** #5663

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Bondarenko, V. M. The similarity of matrices over rings of residue classes. (Russian) **56** #12032

Brawley, J. V. (with Carlitz, Leonard) Enumeration of matrices with prescribed row and column sums. **47** #3418

(with Carlitz, Leonard; Levine, J.) Power sums of matrices over a finite field. **49** #7279

Buckhliester, Philip G. The number of $n \times n$ matrices of rank r and trace α over a finite field. **46** #9068

Rank r solutions to the matrix equation $XAX^T = C, A$ nonalternate, C alternate, over $\text{GF}(2^n)$. **49** #7280

Rank r solutions to the matrix equation $XAX^T = C, A$ alternate, over $\text{GF}(2^n)$. **48** #8534

Burlacu, Eugen Nilpotente Matrizen über L_2 . **55** #373

Carlitz, Leonard The number of solutions of certain matrix equations over a finite field. **48** #3992

See also Brawley, J. V., **47** #3418 and Brawley, J. V.; et al., **49** #7279

Chao, Chong Yun (with Winograd, Shmuel) A generalization of a theorem of Boolean relation matrices. **57** #3163

Cohn, Paul Moritz The similarity reduction of matrices over a skew field. **48** #3993

Coppel, W. A. Matrices of rational functions. **53** #5632

Dalla, Ronald H. (with Porter, A. Duane) The matrix equation $U_1 \dots U_n AV_1 \dots V_m = B$ over a finite field. **49** #330

Fischer, Pál A remark concerning polynomial matrices. **48** #8535

Gyires, Béla On a matrix equation defined over a commutative Euclidean ring. **54** #2692

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Hartwig, Robert E. Generalized inverses, EP elements and associates. **57** #12556

Herstein, Israel Nathan (with Small, Lance W.) An extension of a theorem of Schur. **52** #10770

Hodges, John H. Ranked partitions of rectangular matrices over finite fields. (Italian summary) **57** #12557

Kazimirs'kii, P. S. (with Lunik, F. P.) Augmentation of a rectangular inverse matrix over an associative ring to an invertible one. (Russian) **58** #10963

Kim, Jin Bai On the number of idempotent linear transformations. **50** #356

Kingsley, Roger A. On the number of matrices of fixed rank and size over a finite field. **51** #12889

Lempel, Abraham Matrix factorization over $\text{GF}(2)$ and trace-orthogonal bases of $\text{GF}(2^n)$. **51** #12890

Levine, J. See Brawley, J. V.; et al., **49** #7279

Levy, Lawrence S. Almost diagonal matrices over Dedekind domains. **45** #3437

Lunik, F. P. See Kazimirs'kii, P. S., **58** #10963

McDonald, Bernard R. Involutory matrices over finite local rings. **45** #3438

Diagonal equivalence of matrices over a finite local ring. **45** #8665

Melter, Robert A. The number of invertible elements of a matrix ring over a finite p -ring. **57** #9722

Newman, Morris ★Integral matrices. **49** #5038

Symmetric completions and products of symmetric matrices. **58** #5725

A property of equivalence. **50** #357

A note on matrix equivalence. **57** #9723

Ong, Hock Linear transformations on matrices: the invariance of generalized permutation matrices. III. **57** #12558

Orlovskaja, T. G. See Abbasov, N. T., **50** #4625

Pierce, Stephen Multiplicative maps of matrix semigroups over Dedekind rings. **47** #3419

Porter, A. Duane (with Hanson, Leslie Ann) Unitary similarity of normal matrices in $\text{GF}(q)$. **48** #8536

The matrix equation $A_1X_1 + \dots + A_mX_m = B$ in $\text{GF}(q)$. **51** #8144

Some partitions of a rectangular matrix. (Italian summary) **52** #8160

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Sizer, Walter S. Triangularizing semigroups of matrices over a skew field. **57** #9724

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Turčin, V. M. Matrix problems and the theory of genera. (Russian) **55** #10484

Wagner, G. B. Ideal matrices and ideal vectors. **45** #8666

Winograd, Shmuel See Chao, Chong Yun, **57** #3163

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Abbasov, N. T. The structure of the quasialternion algebras ${}^{0,1}A_n^m$, ${}^{k,1}A_n^m$, and the fundamental involutions in these algebras. (Russian) (58 #11000)

Bender, Edward A. On Buckheister's enumeration of $n \times n$ matrices. (50 #125)

Brawley, J. V. (with Carlitz, Leonard; Levine, Jack) Scalar polynomial functions on the $n \times n$ matrices over a finite field. (51 #12800)

Carlitz, Leonard See Brawley, J. V.; et al., (51 #12800)

Ching, Wai Sin Linear equations over commutative rings. (57 #16329)

Djoković, Dragomir Ž. Artin-Schreier theory for positive-semidefinite symmetric or Hermitian matrices. (Serbo-Croatian summary) (57 #6061)

Classification of pairs consisting of a linear and a semilinear map. (58 #726)

Donovan, Timothy P. Certain matrix congruences (mod p^n). (58 #16724)

Gerstein, Larry J. A local approach to matrix equivalence. (57 #9717)

Kim, Ki Hang (with Roush, Fred William) On maximal submonoids of B_X . (57 #3289)

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(with Roush, Fred William) Two-generator semigroups of binary relations. (58 #11175)

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See also Porter, A. Duane, (58 #10960)

- Padberg, Manfred W.** Characterisations of totally unimodular, balanced and perfect matrices. (53 #10291)
- Porter, A. Duane** Systems of four equations with a matrix application in a finite field. (46 #1762)
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- Riveland, A. Allan** (with Porter, A. Duane) The skew matrix equation $X_1' \cdots X_1' A X_1' \cdots X_n' = B$. (Italian summary) (58 #5723)
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- Geramita, Anthony V.** (with Pullman, Norman J.) A theorem of Hurwitz and Radon on orthogonal projective modules. (48 #11090)
- Hafner, Paul R.** Über eine Primzahlkongruenz. (58 #27729)
- Hoffman, Alan J.** (with Pereira, Francisco) On copositive matrices with $-1, 0, 1$ entries. (47 #5029)
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15A57 Other types of matrices (Hermitian, skew-Hermitian, etc.)

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On representations for isotropic functions. II. Isotropic functions of skew-symmetric tensors, symmetric tensors, and vectors. **49** #5056

- A new representation theorem for isotropic functions: An answer to Professor G. F. Smith's criticism of my papers on representations for isotropic functions. I. Scalar-valued isotropic functions. (49 #5058)
- A new representation theorem for isotropic functions: An answer to Professor G. F. Smith's criticism of my papers on representations for isotropic functions. II. Vector-valued isotropic functions, symmetric ten tensor-valued isotropic functions, and skew-symmetric tensor-valued isotropic functions. (49 #5059)
- Corrigendum to my recent papers on "Representations for isotropic functions" (Arch. Rational Mech. Anal. 36 (1970), 166-197; *ibid.* 36 (1970), 198-223). (49 #5060)
- See also Smith, G. F., (49 #5057)
- Secondary classifications:
- Bartolozzi, Margherita Sulla decomposizione dei tensori. (46 #808)
- Boehler, Jean-Paul On irreducible representations for isotropic scalar functions. (German and Russian summaries) (57 #4742)
- Borovskii, Ju. E. Invariants and the categorical quotient. (Russian) (48 #6124)
- A certain system of invariants that separates noncongruent algebraic varieties in a Klein space. (Russian) (54 #315)
- One way of constructing the categorical quotient. (Russian) (50 #2186)
- Brodskii, I. B. The invariants of unipotent groups. (Russian) (55 #5757)
- Byrnes, Christopher I. See Gauger, Michael A., (57 #16298)
- Carrell, James B. See Dieudonné, Jean A.; et al., (50 #2160)
- Dang Din' Bik Comitants of a cubic system. (Russian) (53 #5639)
- (with Sibirskii, K. S.) Affine classification of a cubic differential system. (Russian) (58 #22723)
- Dieudonné, Jean A. (with Carrell, James B.; Mumford, David) ★Геометрическая теория инвариантов. (Russian) [Geometric invariant theory] (50 #2160)
- Dixmier, Jacques (with Duflo, Michel; Vergne, Michèle) Sur la représentation coadjointe d'une algèbre de Lie. (51 #630)
- Dobkin, David P. On the optimal evaluation of a set of n -linear forms. (55 #11703)
- Driss, Bularas (with Popa, M. N.) Concomitants of a system with quadratic nonlinearities. (Russian) (58 #22729)
- Duflo, Michel See Dixmier, Jacques; et al., (51 #630)
- Edge, W. L. Binary forms and pencils of quadrics. (51 #10362)
- Élašvili, A. G. Centralizers of nilpotent elements in semisimple Lie algebras. (Russian. Georgian and English summaries) (52 #13958)
- Formanek, Edward (with Procesi, Claudio) Mumford's conjecture for the general linear group. (53 #8081)
- Ganea, Virgiliu Gh. Geometric objects associated with an algebraic equation of degree n in a vector space E_n . (Romanian. French summary) (45 #1060)
- Gardner, Robert B. The fundamental theorem of vector relative invariants. (52 #423)
- Gauger, Michael A. (with Byrnes, Christopher I.) Algebraic transformation groups and the similarity problem. (57 #16298)
- Geyer, Wulf-Dieter Invarianten binärer Formen. (51 #10342)
- Grosshans, Frank Open sets of points with good stabilizers. (48 #11343)
- Localization and invariant theory. (53 #10823)
- Gurevič, G. B. The decomposition of covariant tensors to irreducible terms by means of Young's symmetrizers. (Russian) (46 #6195)
- Haboush, William J. Reductive groups are geometrically reductive. (52 #3179)
- Hadžiev, Dž. The integral rational basis in algebras of invariants of irreducible representations of the rotation group of three-dimensional space. (Russian) (50 #2352)
- The closedness of orbits of general position in finite-dimensional representations of semisimple Lie groups. (Russian) (49 #9002)
- Certain ideals in the algebra of invariants of the product of linear forms. (Russian) (49 #9003)
- Universal algebras of Lie groups, and their applications. (Russian) (53 #721)
- The group $Sp(m, n, \mathbb{Q})$, and some questions on the theory of invariants for its actions. (Russian) (57 #12390)
- (Hilbert, David) See Paršin, A. N., (58 #21226)
- Hipps, N. (with Mount, Kenneth R.; Villamayor, Orlando E.) Sur la polarisation des polynômes homogènes en caractéristique $p > 0$. (English summary) (55 #12723)
- Huang, Chi Lung (with Smith, G. F.) A canonical form for symmetric functions of three vectors. (French, German, Italian and Russian summaries) (57 #8235)
- Huang, Han Shui On the (G, σ) tensor products of free modules. (57 #9684)
- Ivanov, N. A. Some invariants of reduced algebraic polynomials. (Russian) (58 #27925)
- Kac, Victor G. (with Popov, Vladimir L.; Vinberg, Ernest B.) Sur les groupes linéaires algébriques dont l'algèbre des invariants est libre. (English summary) (54 #7489)
- Kantor, I. L. Invariants of homogeneous spaces with parabolic isotropy subgroups. (Russian) (49 #2772)
- Kutz, Ronald E. Cohen-Macaulay rings and ideal theory in rings of invariants of algebraic groups. (50 #4570)
- Luna, Domingo Slices étales. (49 #7269)
- Malliavin-Brammeret, Marie-Paule Sur les anneaux d'invariants de groupes nilpotents. (English summary) (51 #10356)
- Martin, Dominique Détermination du rang de commutativité d'anneaux de matrices et de produits tensoriels d'algèbres. (English summary) (56 #396)
- Maurer, Donald Invariants of the trace-form of a number field. (58 #5589)
- Merris, Russell On vanishing decomposable symmetrized tensors. (58 #28048)
- Mount, Kenneth R. See Hipps, N.; et al., (55 #12723)
- Mumford, David Hilbert's fourteenth problem—the finite generation of subrings such as rings of invariants. (55 #8038)
- See also Dieudonné, Jean A.; et al., (50 #2160)
- Oberst, Ulrich The use of representations in the invariant theory of not necessarily reductive groups. (58 #22091)
- Paršin, A. N. David Hilbert and the theory of invariants. (Russian) (58 #21226)
- See also Dieudonné, Jean A.; et al., (50 #2160)
- Popa, M. N. See Driss, Bularas, (58 #22729)
- Popov, Vladimir L. See Kac, Victor G.; et al., (54 #7489)
- Procesi, Claudio See Formanek, Edward, (53 #8081)
- Rivlin, Ronald S. The application of the theory of invariants to the study of constitutive equations. (58 #8596)
- Robinson, Gilbert de B. The papers of Alfred Young (1873-1940). (55 #10208)
- Seshadri, C. S. Geometric reductivity over arbitrary base. (57 #6035)
- See also Dieudonné, Jean A.; et al., (50 #2160)
- Shah, K. Tahir Conjugacy and stability theorems in connection with contraction of algebras. (52 #5888)
- Sibirskii, K. S. ★Алгебраические инварианты дифференциальных уравнений и матриц. (Russian) [Algebraic invariants of differential equations and matrices] (58 #22728a)
- Algebraic invariants of differential equations. (Russian) (58 #22728b)
- See also Dang Din' Bik, (58 #22723) and Vulpe, N. I., (58 #22728c)
- Smith, G. F. See Huang, Chi Lung, (57 #8235)
- Spindelböck, Klaus Der Exponent der einer perspektiven Affinität zugeordneten Matrizen. (57 #16332)
- Springer, Tonny Albert ★Invariant theory. (56 #5740)
- Takeuchi, Mitsuhiro A note on geometrically reductive groups. (49 #2770)
- Vanhecke, Lieven π -produits vectoriels. (58 #24115)
- Vergne, Michèle See Dixmier, Jacques; et al., (51 #630)
- Villamayor, Orlando E. See Hipps, N.; et al., (55 #12723)
- Vinberg, Ernest B. The classification of nilpotent elements of graded Lie algebras. (Russian) (58 #22194)
- See also Kac, Victor G.; et al., (54 #7489)
- Voskresenskii, V. E. Some questions of the birational geometry of algebraic tori. (Russian) (54 #10287)
- Vulpe, N. I. (with Sibirskii, K. S.) Affine classification and concomitants of a quadratic system. (Russian) (58 #22728c)
- Vust, Thierry Sur le type principal d'orbites d'un module rationnel. (50 #7367)
- Sur la théorie des invariants des groupes classiques. (English summary) (53 #8082)
- Whiteley, Walter Logic and invariant theory. I. Invariant theory of projective properties. (56 #5279)
- Logic and invariant theory. III. Axiom systems and basic syzygies. (57 #16057)
- Logic and invariant theory. II. Homogeneous coordinates, the introduction of higher quantities, and structural geometry. (57 #16057a)
- Yano, Tamaki Some remarks on the theory of b -functions. (Japanese) (58 #11531)
- (Young, Alfred) See Robinson, Gilbert de B., (55 #10208)
- Bibliography:
- Young, Alfred See Robinson, Gilbert de B., (55 #10208)
- 15A75 Exterior algebra, Grassmann algebras
- Amir-Moéz, Ali R. Geometry of determinants and Grassmann algebras. (52 #3205)
- Andresen, Patricia See Marcus, Marvin, (58 #16737)
- Balcerzyk, Stanisław On traces of exterior powers of a sum of two endomorphisms of a projective module. (46 #7280)
- Béla, Rendi See Dorina, Gherghina, (52 #455)
- Bruni, Marcello Misure euclidee, hermitiane, simpletiche e potenze esterne di uno spazio vettoriale quaternionale. (46 #9083)
- Busemann, Herbert (with Glasco, D. Edward, II) Irreducible sums of simple multivectors. (49 #7286)
- Dibag, Ibrahim Factorization in exterior algebras. (49 #10718)
- Dionisio, J. J. Introduction to exterior algebra. (Portuguese) (46 #3541)
- Dorina, Gherghina (with Béla, Rendi) On the adjoint of a transformation $T \in GL(n, R)$. (Romanian. English summary) (52 #455)
- Gardner, Robert B. ★Lectures on exterior algebras over commutative rings. (53 #10835)
- Gigante, Giuliana Sulla fattorizzazione nelle algebre esterne. (English summary) (58 #22134)
- Glasco, D. Edward, II See Busemann, Herbert, (49 #7286)
- Gor'kovoĭ, V. F. The group of automorphisms of an exterior algebra. (Russian) (57 #3177)
- Kahane, Joseph Grassman algebras for proving a theorem on Pfaffians. (46 #1823)
- Kim, Jin Bai Induced transformations on exterior product spaces. (50 #9924)
- Kleiner, G. B. Multivectors of rank 2. (Russian) (53 #495)
- Kleiner, G. V. Rank invariance of m -vectors over a commutative ring in the transition to a quotient field. (Russian) (56 #12043)
- Krakowski, Don (with Regav, Amitai) The polynomial identities of the Grassmann algebra. (48 #4005)
- Lim, M. J. S. ℓ -2 subspaces of Grassmann product spaces. (46 #3542)
- Lim, Ming Huat Antiderivations on the exterior algebras. (55 #10491)
- Marcus, Marvin (with Robinson, Herbert A.) A note on the Hodge star operator. (50 #13097)
- (with Robinson, Herbert A.) On exterior powers of endomorphisms. (56 #5616)
- (with Andresen, Patricia) The numerical radius of exterior powers. (58 #16737)
- Park, Jong Geun Induced transformations on exterior product spaces. (54 #2703)
- Regav, Amitai See Krakowski, Don, (48 #4005)
- Revoy, Philippe Formes alternées et puissances divisées. (57 #12569)
- Robinson, Herbert A. See Marcus, Marvin, (50 #13097) and Marcus, Marvin, (56 #5616)
- Roby, Norbert Opérateurs différentiels dans les algèbres extérieures et formes différentielles extérieures d'une algèbre. (57 #6066)
- Sancho de San Román, Juan A brief proof of the relation that connects the ordinary and dual Grassmannian coordinates. (Spanish) (50 #4638)
- Sikorski, Roman Abstract exterior differential. (51 #3204)
- Westwick, R. Linear transformations on Grassmann spaces. III. (55 #2969)
- Trivectors in a space of seven dimensions. (57 #16338)
- Secondary classifications:
- Atkin, R. H. An algebra for patterns on a complex. I. (54 #12257)
- de Barros, Constantino M. Calcul différentiel extérieur de degré arbitraire. (English

- summary) (45 #4308)
- Bruni, Marcello** Aspetti geometrici delle forme esterne in uno spazio vettoriale quaternionale. (English summary) (49 #7942)
- Formisano, Maria Rosaria** Sulla continuità di una p -forma su una K -algebra filtrata. (English summary) (54 #363)
- Freeman, Michael** An elementary invariant definition of the functions of bidegree (p, q) . (51 #10669)
- Gherghina, D.** (with Rendi, B.) Sur le rang d'une p -forme extérieure. (Romanian summary) (58 #7676)
- Gurevič, G. B.** Certain properties of trivectors in affine space. (Russian) (53 #3929)
- Kleiner, G. B.** The decomposability of the elements of the exterior algebra of a free module. (Russian) (45 #1897)
- Morikawa, Hisasi** On a canonical operation of $\mathfrak{sl}(2m)$ on the exterior algebra of the vector space of complex $m \times n$ -matrices. (48 #1082)
- Rendi, B.** Sur la forme canonique des formes extérieures. (57 #1532)
See also **Gherghina, D.**, (58 #7676)
- Robinson, Herbert A.** An alternative to the Plücker relations. (57 #6065)
- Sain, Michael K.** (with Seshadri, V.) Pole assignment and a theorem from exterior algebra. (58 #20670)
- Seshadri, V.** *See* **Sain, Michael K.**, (58 #20670)

15A78 Other algebras built from modules

- Barker, George Phillip** (with Eifler, Larry Q.; Kezlan, Thomas P.) A non-commutative spectral theorem. 58 #5739
- Bos, Werner** (with Wolff, Gerhard) Affine Räume. I. 58 #22135a
(with Wolff, Gerhard) Affine Räume. II. 58 #22135b
- Eifler, Larry Q.** *See* **Barker, George Phillip**; et al., 58 #5739
- Kerby, William** Automorphisms of homogeneously generated algebras. 48 #8540
- Kezlan, Thomas P.** *See* **Barker, George Phillip**; et al., 58 #5739
- Wolff, Gerhard** *See* **Bos, Werner**, 58 #22135a *and* **Bos, Werner**, 58 #22135b

Secondary classifications:

- Bass, Hyman** (with Connell, E. H.; Wright, David Lee) Locally polynomial algebras are symmetric algebras. (55 #5613)
- Connell, E. H.** *See* **Bass, Hyman**; et al., (55 #5613)
- Ion, Ion D.** (with Năstăsescu, Constantin) Anneaux gradués semi-simples. (58 #5784)
- Kaplan, D. M.** A mapping of spin matrices on polynomials. (58 #8862)
- Kobayashi, Yuji** The Hilbert series of some graded algebras and the Poincaré series of some local rings. (58 #5643)
- Levasseur, Thierry** Algèbres localement polynomiales. (58 #5646)
- Năstăsescu, Constantin** *See* **Ion, Ion D.**, (58 #5784)
- Okoh, Frank** Systems that are purely simple and pure injective. (57 #12604)
- Orzech, Morris** Brauer groups of graded algebras. (56 #8545)
- Suslin, A. A.** Locally polynomial rings and symmetric algebras. (Russian) (56 #2997)
- Wright, David Lee** *See* **Bass, Hyman**; et al., (55 #5613)

15A99 Miscellaneous topics

- Araki, Mitsuhiro** M -matrices and their applications. I. (Japanese) (Not reviewed)
- Edelmann, Hans** Vier Woodbury-Formeln hergeleitet aus dem Variablentauch einer speziellen Matrix. 54 #331
- Gower, J. C.** The analysis of asymmetry and orthogonality. 58 #755
- Kazimirs'kii, P. S.** (with Zelisko, V. R.; Petričkovič, V. M.) On the question of the similarity of matrix polynomials. (Russian. English summary) 58 #5740
(with Zelisko, V. R.) Splitting off a linear factor from a matrix polynomial. (Russian. English summary) 58 #5741
- Meĭ'nikov, V. E.** Matrix-valued functions. (Russian) 58 #16738
- Petričkovič, V. M.** *See* **Kazimirs'kii, P. S.**; et al., 58 #5740
- Zelisko, V. R.** *See* **Kazimirs'kii, P. S.**; et al., 58 #5740 *and* **Kazimirs'kii, P. S.**, 58 #5741

Secondary classifications:

- Atkin, R. H.** An algebra for patterns on a complex. II. (Not reviewed)
- Calvert, Bruce D.** (with Seber, George A. F.) Minimisation of functions of a positive semidefinite matrix A subject to $AX=0$. (58 #3210)
- Carlson, David H.** (with Hill, Richard D.) Generalized controllability and inertia theory. (58 #9483)
- Hallum, C. R.** *See* **McMath, John S.**; et al., (58 #8201)
- Hill, Richard D.** *See* **Carlson, David H.**, (58 #9483)
- McMath, John S.** (with Sims, S. E.; Hallum, C. R.) On the properties of a matrix valued derivative utilizing the Moore-Penrose inverse. (58 #8201)
- Mitra, Sujit Kumar** *See* **Rao, C. Radhakrishna**, (53 #6906)
- Rao, C. Radhakrishna** (with Mitra, Sujit Kumar) Generalized inverse of a matrix and its applications. (53 #6906)
- Risman, Lawrence J.** Twisted rational functions and series. (58 #10874)
- Seber, George A. F.** *See* **Calvert, Bruce D.**, (58 #3210)
- Sims, S. E.** *See* **McMath, John S.**; et al., (58 #8201)

6–XX ASSOCIATIVE RINGS AND ALGEBRAS [For the commutative case, see 13–XX.]

- (Andrunakievič, V. A.) *See* **Algebras and modules**, 57 #12570
- Colavita, Luis R.** (with Raggi Cárdenas, Francisco Federico; Ríos Montes, José) Stable Gabriel filters. V. Some topological interpretations with respect to Gabriel filters. (Spanish) 58 #28050e
- González Peláez, Marcela** (with Pineda, Adolfo; Raggi Cárdenas, Francisco Federico; Ríos Montes, José; Salas, Carlos; Spindola, Patricia; Tomé, Bertha) Stable Gabriel

- filters. I. Relative finiteness conditions. (Spanish) 58 #28050a
(with Pineda, Adolfo; Raggi Cárdenas, Francisco Federico; Ríos Montes, José; Salas, Carlos; Spindola, Patricia; Tomé, Bertha) Stable Gabriel filters. II. Relative semisimplicity conditions. (Spanish) 58 #28050b
(with Pineda, Adolfo; Raggi Cárdenas, Francisco Federico; Ríos Montes, José; Salas, Carlos; Spindola, Patricia; Tomé, Bertha) Stable Gabriel filters. III. The relative radical of Jacobson, and some examples. (Spanish) 58 #28050c
- Koh, Kwangil** Quasimple modules and other topics in ring theory. 49 #341
- Năstăsescu, Constantin** ★Inele. Module. Categorii. (Romanian) [Rings. Modules. Categories] 53 #13285
- Niță, Ana** Quelques observations sur les ultraproducts d'anneaux. 58 #22136
- Pineda, Adolfo** *See* **González Peláez, Marcela**; et al., 58 #28050a; **González Peláez, Marcela**; et al., 58 #28050b *and* **González Peláez, Marcela**; et al., 58 #28050c
- Raggi Cárdenas, Francisco Federico** *See* **González Peláez, Marcela**; et al., 58 #28050a; **González Peláez, Marcela**; et al., 58 #28050b; **González Peláez, Marcela**; et al., 58 #28050c *and* **Colavita, Luis R.**; et al., 58 #28050e
- Ríos Montes, José** Stable Gabriel filters. IV. Flat modules and relative regular rings. (Spanish) 58 #28050d
See also **González Peláez, Marcela**; et al., 58 #28050a; **González Peláez, Marcela**; et al., 58 #28050b; **González Peláez, Marcela**; et al., 58 #28050c *and* **Colavita, Luis R.**; et al., 58 #28050e
- Salas, Carlos** *See* **González Peláez, Marcela**; et al., 58 #28050a; **González Peláez, Marcela**; et al., 58 #28050b *and* **González Peláez, Marcela**; et al., 58 #28050c
- Spindola, Patricia** *See* **González Peláez, Marcela**; et al., 58 #28050a; **González Peláez, Marcela**; et al., 58 #28050b *and* **González Peláez, Marcela**; et al., 58 #28050c
- Tomé, Bertha** *See* **González Peláez, Marcela**; et al., 58 #28050a; **González Peláez, Marcela**; et al., 58 #28050b *and* **González Peláez, Marcela**; et al., 58 #28050c
- Algebras and modules** ★Алгебры и модули. (Russian) [Algebras and modules] 57 #12570
- Modules** *See* **Algebras and modules**, 57 #12570

Secondary classifications:

- (Borevič, Z. I.) *See* **Modules and representations**, (56 #11977)
- (Kuroš, A. G.) *See* **Collection: Reviews on algebra for the years 1941/1946**, (52 #10315 (EA 53))
- (Skopin, A. I.) *See* **Modules and representations**, (56 #11977)
- Algebra** *See* **Collection: Reviews on algebra for the years 1941/1946**, (52 #10315 (EA 53))
- Collection:**
Reviews on algebra for the years 1941/1946 ★Алгебраический реферативный сборник за 1941–1946 гг. Вып. 1: Алгебра полиномов. Линейная алгебра. Теория полей. Теория колец и алгебр. (Russian) [A collection of reviews on algebra for the years 1941–1946. No. 1: Algebra of polynomials. Linear algebra. Theory of fields. Theory of rings and algebras] (52 #10315 (EA 53))
- Modules and representations** ★Модули и представления. (Russian) [Modules and representations] (56 #11977)
- Representations** *See* **Modules and representations**, (56 #11977)

16–01 Elementary exposition (collegiate level)

- Abian, Alexander** ★Linear associative algebras. 48 #4006
- Adamson, Iain T.** ★Elementary rings and modules. 49 #10719
- Blyth, T. S.** ★Module theory. 58 #10982
- (Cukerman, G. M.) *See* **Faith, Carl**, 58 #10983
- (Dorofeeva, M. P.) *See* **Faith, Carl**, 58 #10983
- Faith, Carl** ★Алгебра: кольца, модули и категории. I. (Russian) [Algebra: rings, modules and categories. I] 58 #10983
- Harinath, K. S.** *See* **Kamalamma, K. N.**, 58 #22137
- Herstein, Israel Nathan** ★Álgebra moderna. Grupos, anillos, campos, teoría de Galois. (Spanish) [Modern algebra. Groups, rings, fields, Galois theory] 46 #5366
- Kamalamma, K. N.** (with Harinath, K. S.) Some elementary results in ring theory. 58 #22137
- Kantor, I. L.** (with Solodovnikov, A. S.) ★Гиперкомплексные числа. (Russian) [Hypercomplex numbers] 50 #371
- (Koifman, L. A.) *See* **Faith, Carl**, 58 #10983
- Larguler, Everett** ★Comparing forests. 56 #394
- (Lluis, Emilio) *See* **Herstein, Israel Nathan**, 46 #5366
- (Mihalev, A. V.) *See* **Faith, Carl**, 58 #10983
- Polcino Milies, Francisco César** ★Anéis e módulos. [Rings and modules] (Portugese) 48 #2168
- (Skornjakov, L. A.) *See* **Faith, Carl**, 58 #10983
- Solodovnikov, A. S.** *See* **Kantor, I. L.**, 50 #371
- (Tol'skaja, T. S.) *See* **Faith, Carl**, 58 #10983
- (Velasco Coba, Federico) *See* **Herstein, Israel Nathan**, 46 #5366

Secondary classifications:

- Greub, Werner H.** ★Linear algebra. (51 #5615)
- Miron, Radu** (with Radó, F.) On the definitions of a module and a vector space by independent axioms. (Not reviewed)
- Nagata, Masayoshi** ★Local rings. (57 #301)
- Radó, F.** *See* **Miron, Radu**, (Not reviewed)
- Szász, Ferenc Andor** ★Radikale der Ringe. (55 #8086)
- Bibliography:**
Radicals in rings *See* **Szász, Ferenc Andor**, (55 #8086)

16–02 Advanced exposition (research surveys, etc.)

- Adamson, Iain T.** ★Rings, modules and algebras. 48 #11175
- Anderson, Frank W.** (with Fuller, Kent R.) ★Rings and categories of modules. 54 #5281

- Auslander, Maurice (with Buchsbaum, David A.) ★Groups, rings, modules. 51 #3205
 Behrens, Ernst-August ★Ring theory. 52 #456
 ★Ringtheorie. 52 #457
 Bourbaki, Nicolas ★Éléments de mathématique, Fasc. XXIII. 54 #5282
 Buchsbaum, David A. See Auslander, Maurice, 51 #3205
 (Camillo, Victor P.) See Problems: Rings, modules and radicals, 50 #13099
 Chew, Kim Lin A survey of the structure theory of rings. 58 #10984
 (Cohn, Paul Moritz) See Problems: Rings, modules and radicals, 50 #13099
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 (Dlab, Vlastimil) See Problems: Rings, modules and radicals, 50 #13099
 (Eldridge, Klaus E.) See Problems: Rings, modules and radicals, 50 #13099
 Faith, Carl Modules finite over endomorphism ring. 49 #7287
 ★Algebra: rings, modules and categories. I. 51 #3206
 ★Algebra. II. 55 #383
 Fuller, Kent R. See Anderson, Frank W., 54 #5281
 Goldie, Alfred W. Some recent developments in ring theory. 50 #13098
 Goodearl, K. R. ★Ring theory. 55 #2970
 Herstein, Israel Nathan ★Notes from a ring theory conference. 47 #1840
 ★Некоммутативные кольца. (Russian) [Noncommutative rings] 50 #4639
 Kasch, Friedrich ★Moduln und Ringe. 55 #2971
 (Koifman, L. A.) See Skornjakov, L. A.; et al., 56 #395
 (Krause, Günter) See Problems: Rings, modules and radicals, 50 #13099
 (Kuz'min, E. N.) See Herstein, Israel Nathan, 50 #4639
 Lambek, Joachim ★Кольца и модули. (Russian) [Rings and modules] 50 #4640
 ★Lectures on rings and modules. 54 #7514
 (Leavitt, W. G.) See Problems: Rings, modules and radicals, 50 #13099
 Mal'cev, Ju. N. Selected questions in the theory of associative rings. (Russian)
 55 #10494
 (Markov, V. T.) See Skornjakov, L. A.; et al., 56 #395
 (McCoey, Neal H.) ★The theory of rings. 52 #13901
 Mihalev, A. V. (with Skornjakov, L. A.) Books, and various questions. (Russian)
 56 #5617
 Endomorphism rings of modules, and lattices of submodules. (Russian)
 53 #10840
 See also Skornjakov, L. A., 56 #395 and Lambek, Joachim, 50 #4640
 Passman, Donald S. The semisimplicity problem for group rings. 50 #7224
 Petrich, M. ★Rings and semigroups. 49 #7288
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16A54 Grothendieck groups of rings, K -theory of noncommutative rings
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16A60 Homological dimension

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- Laxton, R. C. (with Machin, A.) On the decomposition of near-rings. 47 #3461
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17–02 Advanced exposition (research surveys, etc.)

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- Ferraz, Joseph C. Systèmes algébriques à nombre de dimensions fini. 53 #554
- Jenner, W. E. ★Lectures on non-associative algebras. 54 #10349
- Leavitt, W. G. General radical theory in rings. 50 #7267
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- (Cartan, Élie) *See* Dieudonné, Jean A., (52 #13194)
- Dieudonné, Jean A. Les travaux de Élie Cartan sur les groupes et algèbres de Lie. (52 #13194)
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- Bibliography:**
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- Kukin, G. P. Subalgebras of free Lie p -algebras. (Russian) 47 #6798
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- Molnar, Richard K. A semidirect product decomposition for certain Hopf algebras over an algebraically closed field. 55 #3017

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- Ditters, E. J. Curves and formal (co)groups. (47 #8554)
- Hiromori, Katsuhisa Construction of certain Hopf algebras. (50 #9880)
- Humphreys, James E. Symmetry for finite dimensional Hopf algebras. (58 #5757)
- Ishibashi, Yasunori On the bialgebras of group schemes. (47 #8555)
- Kaplansky, Irving ★ Bialgebras. (55 #8087)
- Schneider, Hans-Jürgen Bemerkung zu einer Arbeit von Tate-Oort. (English summary) (50 #340)
- Seligman, George B. On two-dimensional algebraic groups. (53 #13244)
- Sen, Shankar Lie algebras of Galois groups arising from Hodge-Tate modules. (47 #3403)
- Sullivan, John Brendan A decomposition theorem for pro-affine solvable algebraic groups over algebraically closed fields. (50 #13061)
- Yanagihara, Hiroshi Remarks on algebraic Hopf subalgebras. (48 #8514)

17B55 Homological methods in Lie algebras [For homology of Lie algebras, see 18H25.]

- Barnes, Donald W. First cohomology groups of soluble Lie algebras. **56** #3078
- Barou, Geneviève Cohomologie locale des algèbres enveloppantes d'algèbres de Lie nilpotentes. (English summary) **55** #5709
- Bhatwadekar, S. M. On the global dimension of some filtered algebras. II. **57** #16371
- Conod, Sylvie (with de la Harpe, Pierre) Structure du deuxième espace de cohomologie scalaire des algèbres de Lie métabeliennes libres. (English summary) **51** #3246
- Garland, Howard (with Lepowsky, James) Lie algebra homology and the Macdonald-Kac formulas. **54** #2744
- Golubitsky, M. Primitive actions and maximal subgroups of Lie groups. **48** #6197
- Guillemin, V. (with Shnider, Steven) Some stable results on the cohomology of the classical infinite-dimensional Lie algebras. **48** #6198
- Gurevič, G. B. Intrinsic cohomology of metabelian Lie algebras. (Russian) **46** #5409
- Hakimdzanov, Ju. B. The cohomology of parabolic subalgebras of semisimple Lie algebras. (Russian) **58** #5813
- de la Harpe, Pierre See Conod, Sylvie, **51** #3246
- Kantor, I. L. Graded Lie algebras. (Russian) **45** #6879
- Koch, Richard M. On filtered Lie algebras. **55** #5710
- Leger, George F. (with Luks, Eugene M.) Cohomology theorems for Borel-like solvable Lie algebras in arbitrary characteristic. **47** #8645
- (with Luks, Eugene M.) On a duality for metabelian Lie algebras. **48** #8587
- Leites, D. A. Cohomology of Lie superalgebras. (Russian) **54** #10362
- Lepowsky, James See Garland, Howard, **54** #2744
- Luks, Eugene M. See Leger, George F., **47** #8645 and Leger, George F., **48** #8587
- Malliavin-Brameret, Marie-Paule Caractéristiques d'Euler-Poincaré d'algèbres de Lie résolubles. (English summary) **55** #12785
- Rauch, Gérard Effacement et déformation. (English summary) **49** #368
- Shnider, Steven See Guillemin, V., **48** #6198
- Weimar, E. What does the centre of the universal enveloping algebra tell us about the deformations of representations? (Italian and Russian summaries) **50** #2274
- A general first-order deformation solution. (Italian and Russian summaries) **50** #2275
- Deformations into main and supplementary series. (Italian and Russian summaries) **50** #2276
- Wilson, William H. A functorial version of a construction of Hochschild and Mostow for representations of Lie algebras. **58** #5814

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- Baumslag, Gilbert On the subalgebras of certain finitely presented algebras. (**54** #359)
- Kamber, Franz W. (with Tondeur, Philippe) Cohomologie des algèbres de Weil relatives tronquées. (**47** #9660)
- (with Tondeur, Philippe) Algèbres de Weil semi-simpliciales. (**47** #9661)
- (with Tondeur, Philippe) Homomorphisme caractéristique d'un fibré principal feuilleté. (**47** #9662)
- Kuz'min, Ju. V. Free center-by-metabelian groups, Lie algebras and \mathfrak{Q} -groups. (Russian) (**58** #5974)
- Malliavin-Brameret, Marie-Paule Cohomologie d'algèbres de Lie Nilpotentes, et caractéristiques d'Euler-Poincaré. (**56** #15734)
- Retah, V. S. The Massey operations in Lie superalgebras, and deformations of complex-analytic algebras. (Russian) (**58** #22670)
- Shah, K. Tahir Conjugacy and stability theorems in connection with contraction of Lie algebras. (**52** #5888)
- Tondeur, Philippe See Kamber, Franz W., (**47** #9660); Kamber, Franz W., (**47** #9661) and Kamber, Franz W., (**47** #9662)

17B60 Lie rings associated with other structures (associative, Jordan, etc.) [See also 15A30, 16A68, 17C40, 17C50.]

- Allison, B. N. A construction of Lie algebras from \mathfrak{f} -ternary algebras. **55** #3018
- El'sting, G. O. The representations of the Witt algebra. (Russian) **51** #633
- Faulkner, John R. On the geometry of inner ideals. **51** #3247
- (with Ferrar, Joseph C.) Exceptional Lie algebras and related algebraic and geometric structures. **56** #3079
- Ferrar, Joseph C. See Faulkner, John R., **56** #3079
- Hein, W. Innere Lie-Tripelsysteme und \mathfrak{X} -Ternäre Algebren. **51** #12969
- A construction of Lie algebras by triple systems. **52** #13963
- Jordan, Camilla R. (with Jordan, D. A.) The Lie structure of a commutative ring with a derivation. **58** #28102
- Jordan, D. A. Simple Lie rings of derivations of commutative rings. **58** #22208
- See also Jordan, Camilla R., **58** #28102
- Joseph, Anthony Gel'fand-Kirillov dimension for algebras associated with the Weyl algebra. (French summary) **49** #2868
- Kac, Victor G. Classification of simple \mathbb{Z} -graded Lie superalgebras and simple Jordan superalgebras. **58** #16806
- Kljačko, A. A. A connection between varieties of groups and of Lie rings. (Russian) **55** #444
- Murphy, Timothy On the tensor system of a semisimple Lie algebra. **45** #8695
- Riescher, Corina (with Simovici, Dan A.) On some generalizations of Lie algebras. **47** #294
- Schenkman, Eugene A factorization theorem for groups and Lie algebras. **57** #9773
- Simonjans, L. The embedding of a locally nilpotent Lie algebra in a locally nilpotent associative algebra. (Russian. Latvian summary) **52** #3260
- Simovici, Dan A. See Riescher, Corina, **47** #294
- Stewart, Ian N. Adjoint groups and the Mal'cev correspondence (a tale of four functors). **58** #16807
- Tilgner, Hans A graded generalization of Lie triples. **56** #15719
- Graded generalizations of Weyland- and Clifford algebras. **56** #15720

Yamaguti, Kiyosi A remark on Lie triple systems associated with Malcev algebras. **52** #13964

Remarks on characterizations of the points and symplecta in the metasymplectic geometry. **54** #5307

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- Bachmann, Franz (with Grünenfelder, Luzius) Über Lie-Ringe von Gruppen und ihre universellen Enveloppen. (**47** #6795)
- González Jiménez, Santos ★Subálgebras de Frattini y de Cartan, y formaciones locales en álgebras asociativas. (Spanish) [Fratini and Cartan subalgebras, and local formations in associative algebras] (**58** #5777)
- Grünenfelder, Luzius See Bachmann, Franz, (**47** #6795)
- Iordănescu, Radu See Popovici, Iulian; et al., (**46** #7319)
- Jakovlev, N. N. The center of the enveloping algebra of a Witt algebra. (Russian) (**46** #225)
- Kikkawa, Michihiko A note on subloops of a homogeneous Lie loop and subsystems of its Lie triple algebra. (**52** #9117)
- Latsis, Dimitri Sur une propriété des suites régulières en algèbre non commutative. (English summary) (**58** #22180)
- Martindale, Wallace S., III Lie isomorphisms of the skew elements of a prime ring with involution. (**54** #10344)
- Popovici, Iulian (with Iordănescu, Radu; Turtoi, Adriana) Some maximal graduation classes and their Riemannian properties. (**46** #7319)
- Turtoi, Adriana See Popovici, Iulian; et al., (**46** #7319)

17B65 Infinite dimensional Lie algebras [See also 22E65.]

- Amayo, Ralph K. (with Stewart, Ian N.) Finitely generated Lie algebras. **48** #2205
- A note on finite dimensional subideals of Lie algebras. **48** #357
- Locally coalescent classes of Lie algebras. **49** #2869
- The derived join theorem and coalescence in Lie algebras. **49** #2871
- (with Stewart, Ian N.) ★Infinite-dimensional Lie algebras. **53** #570
- Lie algebras in which every finitely generated subalgebra is a subideal. **49** #2870
- A construction for algebras satisfying the maximal condition for subalgebras. **55** #10536
- (with Stewart, Ian N.) Descending chain conditions for Lie algebras of prime characteristic. **51** #10418
- Backhouse, Nigel B. Some aspects of graded Lie algebras. **58** #22209
- Bahturin, Ju. A. The approximation of Lie algebras. (Russian) **47** #3476
- Balachandran, V. K. Real L^* -algebras. **50** #420
- Berezin, F. A. (with Retah, V. S.) The structure of Lie superalgebras with a semisimple even part. (Russian) **58** #5815
- Berman, S. Isomorphisms and automorphisms of universal Heffalump Lie algebras. **58** #5816
- Bloh, A. Ja. A certain property of a complete direct sum of simple Lie algebras. (Russian) **53** #5682
- van Est, W. T. (with Świerczkowski, S.) The path functor and faithful representability of Banach Lie algebras. **49** #5111
- Garland, Howard (with Lepowsky, James) The Macdonald-Kac formulas as a consequence of the Euler-Poincaré principle. **57** #6127
- Gruško, P. Ja. Semiflat structures over irreducible groups. (Russian) **58** #16808
- Hanscombe, K. P. Classification of involutive Banach-Lie algebras. **57** #6128
- de la Harpe, Pierre ★Classical Banach-Lie algebras and Banach-Lie groups of operators in Hilbert space. **57** #16372
- Heineken, Hermann Lie-Algebren mit SI-Bedingungen. **53** #5683
- Ikushima, Akira See Mimura, Fumitake, **58** #11049
- Kaplansky, Irving Infinite-dimensional Lie algebras. **53** #8170
- (with Kibler, Robert E.) Infinite-dimensional Lie algebras. II. **53** #8171
- Kawamoto, Naoki See Tōgō, Shigeaki, **48** #360; Tōgō, Shigeaki, **50** #9998 and Tōgō, Shigeaki, **53** #571
- Kibler, Robert E. See Kaplansky, Irving, **53** #8171
- Kubo, Fujio On an infinite-dimensional Lie algebra satisfying the maximal condition for subalgebras. **54** #10363
- On infinite-dimensional algebras satisfying the maximal condition for subalgebras. **55** #3019
- A note on Witt algebras. **57** #394
- Finiteness conditions for Abelian ideals and nilpotent ideals in Lie algebras. **58** #814
- Kukln, G. P. Intersection of subalgebras of a free Lie algebra. (Russian) **58** #28103
- The work problem for Lie algebras. (Russian) **56** #15721
- Lepowsky, James See Garland, Howard, **57** #6127
- Mimura, Fumitake (with Ikushima, Akira) Structure of contracted Lie algebras. **58** #11049
- Moody, Robert V. Macdonald identities and Euclidean Lie algebras. **56** #436
- Parfenov, V. A. Exterior differentiations of Lie algebras. (Russian) **53** #5684
- Petitjean, Alexis Prolongements d'homomorphismes d'algèbres de Lie filtrées transitives. **50** #4680
- Retah, V. S. See Berezin, F. A., **58** #5815
- Rittenberg, V. (with Wyler, D.) Generalized superalgebras. **58** #11050
- Rudakov, A. N. Irreducible representations of infinite-dimensional Lie algebras of Cartan type. (Russian) **50** #13179
- de Ruiter, Jan An improvement of a result of I. N. Stewart. **47** #6799
- Šabac, Mihai Solvable Lie algebras of operators on a Banach space. **58** #815
- Smith, Brian T. Filtration techniques in the study of Lie algebras. **48** #358
- Stevens, Gary E. Some counterexamples for infinite dimensional Lie algebras. **58** #22210
- Stewart, Ian N. The Lie algebra of endomorphisms of an infinite-dimensional vector space. **47** #6800
- Levi factors on infinite-dimensional Lie algebras. **48** #2206
- The structure of certain infinite-dimensional Lie algebras. **56** #8649

- Soluble Lie algebras having finite-dimensional maximal subalgebras. **50** #4681
 Finitely presented infinite-dimensional simple Lie algebras. **52** #3261
 Conjugacy theorems for a class of locally finite Lie algebras. **52** #3262
See also Amayo, Ralph K., **48** #2205; Amayo, Ralph K., **51** #10418; Amayo, Ralph K., **53** #570 and Towers, David, **53** #572
 Świerczkowski, S. The path-functor on Banach Lie algebras. **45** #330
See also van Est, W. T., **49** #5111
 Teo, K. L. Simple quotients of the three tiered Euclidean Lie algebra. **58** #5817
 Tölgö, Shigeaki Radicals of infinite dimensional Lie algebras. **48** #359
 (with Kawamoto, Naoki) Ascendantly coalescent classes and radicals of Lie algebras. **48** #360
 Characterizations of radicals of infinite dimensional Lie algebras. **48** #11235
 (with Kawamoto, Naoki) Locally coalescent classes of Lie algebras. **50** #9998
 (with Kawamoto, Naoki) Locally ascendantly coalescent classes of Lie algebras. **53** #571
 The minimal condition for ascendant subalgebras of Lie algebras. **57** #395
 Towers, David (with Stewart, Ian N.) The Frattini subalgebras of certain infinite-dimensional soluble Lie algebras. **53** #572
 Unsain, Ignacio Classification of the simple separable real L^* -algebras. **48** #4068
 Vasilescu, Florian-Horia On Lie's theorem in operator algebras. **47** #295
 Wyler, D. *See* Rittenberg, V., **58** #11050
 Zaicev, M. V. The finite basis property of varieties of Lie algebras. (Russian) **58** #22211

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- Amayo, Ralph K. Frattini subalgebras of finitely generated soluble Lie algebras. (**58** #16801)
 Avez, André Cas de réductivité des algèbres de Lie de symplectomorphismes. (**50** #14841)
 Borisov, N. V. (with Ioffe, M. V.; Èides, M. I.) Second quantization of field systems on the Grassmann algebra (dual string with internal spin). (Russian. English summary) (**57** #15010)
 Demazure, Michel Identités de Macdonald. (**57** #16369)
 Dixon, Geoffrey Fermi-Bose and internal symmetries with universal Clifford algebras. (**57** #8532)
 Èides, M. I. *See* Borisov, N. V.; et al., (**57** #15010)
 Foaş, C. (with Şabac, Mihai) A generalisation of Lie's theorem. IV. (**57** #17308c)
 Fuks, D. B. *See* Gel'fand, I. M.; et al., (**46** #922)
 Gel'fand, I. M. (with Kazhdan, David; Fuks, D. B.) Actions of infinite-dimensional Lie algebras. (Russian) (**46** #922)
 Guillemin, V. (with Quillen, Daniel; Sternberg, Shlomo) The integrability of characteristics. (**57** #1582)
 de la Harpe, Pierre *See* Omori, Hideki, (**47** #4286)
 Horsley, R. Some isomorphic function and Fock space representations of the dual model superconformal group. (**58** #14468)
 Ioffe, M. V. *See* Borisov, N. V.; et al., (**57** #15010)
 Joseph, Anthony Infinite dimensional Lie algebras in mathematics and physics. (**57** #4267)
 Kac, Victor G. Lie superalgebras. (**58** #5803)
 Kazhdan, David *See* Gel'fand, I. M.; et al., (**46** #922)
 Kirillov, A. A. Local Lie algebras. (Russian) (**55** #11304a (E **55** #11304b))
 Letter to the editors: Correction to "Local Lie algebras" (Uspehi Mat. Nauk **31** (1976), no. 4(190), 57-76). (Russian) (**55** #11304b)
 Leites, D. A. New Lie superalgebras, and mechanics. (Russian) (**58** #31223)
 Lepowsky, James (with Milne, Stephen) Lie algebras and classical partition identities. (**58** #10713)
 Lichnerowicz, André Algèbre de Lie des automorphismes infinitésimaux d'une structure unimodulaire. (English summary) (**52** #4352)
 Losik, M. V. The cohomology of the Lie algebra of vector fields with coefficients in the trivial identity representation. (Russian) (**46** #912)
 Maruo, Osamu Pseudo-coalescent and locally pseudo-coalescent classes of Lie algebras. (**55** #3011)
 Miers, C. Robert Lie triple derivations of von Neumann algebras. (**58** #7109)
 Milne, Stephen *See* Lepowsky, James, (**58** #10713)
 Omori, Hideki (with de la Harpe, Pierre) About interactions between Banach-Lie groups and finite dimensional manifolds. (**47** #4286)
 Perchik, James Cohomology of Hamiltonian and related formal vector field Lie algebras. (**54** #13930)
 Quillen, Daniel *See* Guillemin, V.; et al., (**57** #1582)
 Rozenfel'd, B. I. Cohomology of certain infinite-dimensional Lie algebras. (Russian) (**46** #8267)
 Rudakov, A. N. Irreducible representations of infinite-dimensional Lie algebras of types S and H. (Russian) (**53** #6634)
 Şabac, Mihai A generalisation of Lie's theorem. III. (**57** #17308b)
 A generalisation of Lie's theorem. II. (**57** #17308a)
See also Foaş, C., (**57** #17308c)
 Srivastava, P. P. On pseudo-Lie algebra in superspace. (**56** #8762)
 Sternberg, Shlomo Some recent results on supersymmetry. (**56** #8756)
See also Guillemin, V.; et al., (**57** #1582)
 Suzuki, Masuo On the convergence of exponential operators—the Zassenhaus formula, BCH formula and systematic approximants. (**57** #3911)
 Teleman, Nicolae A characteristic ring of a Lie algebra extension. I, II. (Italian summaries) (**49** #6251)
 Van Alstine, P. Remark on the c-number anomaly in the Virasoro algebra. (**57** #8578)
 Vey, Jacques Déformation du crochet de Poisson sur une variété symplectique. (**54** #8765)
 Rapport sur les champs symplectiques formels. (**57** #7619)
 Wojtyński, Wojciech A note on compact Banach-Lie algebras of Volterra type. (Russian summary) (**58** #12470)

17B99 None of the above, but in this section

- Allen, A. L. (with Moran, Siegfried) The inverse limit of some free algebras. **49** #3
 Andreev, K. K. Letter to the editors. (Russian) **45** #5180
 Artamonov, V. A. Chain varieties of linear algebras. (Russian) **54** #369
 Bahturin, Ju. A. Identities in Lie algebras. I, II. (Russian. English summary) **49** #28
 (with Ol'sanskii, A. Ju.) Identical relations in finite Lie rings. (Russian) **51** #10419
 Bloh, A. Ja. A certain generalization of the concept of Lie algebra. (Russian) **48** #11236
 Bokut', L. A. Unsolvability of the word problem for Lie algebras. (Russian) **47** #50
 Unsolvability of the word problem, and subalgebras of finitely presented Lie algebras. (Russian) **48** #8588
 Braconnier, Jean Sur les crochets généralisés. (English summary) **58** #16809
 Creangă, Ion Algèbres de Lie, non-distributives. (Romanian summary) **47** #296
 Drenski, V. S. Identities in Lie algebras. (Russian) **51** #10420
 Gein, A. G. Semimodular Lie algebras. (Russian) **53** #13334
 Supersolvable Lie algebras and the Dedekind law in the lattice of subalgebras. (Russian) **58** #5818
 Genov, Georgi K. Verbal ideals of free Lie algebras. (Russian. English summary) **53** #573
 Varieties of Lie algebras. (Bulgarian. Russian and English summaries) (*See* Z **354** #17008)
 Kac, Victor G. Classification of simple Lie superalgebras. (Russian) **52** #10833 (E **52** #435)
 A sketch of Lie superalgebra theory. **56** #437
 Kikich, Yoshiaki The relation between Hein's construction of Lie algebras and the construction of Lie algebras from symplectic triple systems. **57** #12629
 Lash, A. A. Lattice isomorphisms of Lie algebras that are related to their representations. (Russian. Georgian summary) **55** #445
 Lattice isomorphisms of rings and Lie algebras. (Russian) **53** #13335
 Lattice isomorphisms of nilpotent Lie algebras. (Russian. Georgian and English summaries) **57** #6129
 Mansouri, Freydoon A new class of superalgebras and local gauge groups in superspace. **58** #28104
 Milner, A. A. Irreducible representations of a Zassenhaus algebra. (Russian) **57** #977
 Moran, Siegfried *See* Allen, A. L., **49** #369
 Ol'sanskii, A. Ju. *See* Bahturin, Ju. A., **51** #10419
 Ravisankar, T. S. Some remarks on Lie triple systems. **49** #10749
 Şeina, G. V. Certain varieties of Lie algebras. (Russian) **53** #13336
 Varieties of metabelian Lie A -algebras. I. (Russian. English summary) **58** #5819a
 Metabelian varieties of Lie A -algebras. (Russian) **58** #5820
 Varieties of metabelian Lie A -algebras. II. (Russian. English summary) **58** #5819b
 Servedio, Frank J. Principle irreducible Lie-algebra modules. **53** #5685
 Strade, Helmut Representations of the Witt algebra. **56** #12086

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- Berman, Stephen Jay (with Moody, Robert V.; Wonenburger, Maria J.) Cartan matrices with null roots and finite Cartan matrices. (**45** #3439)
 Bokut', L. A. Undecidability of certain algorithmic problems for Lie algebras. (Russian) (**51** #106)
 Corwin, Lawrence (with Ne'eman, Y.; Sternberg, Shlomo) Graded Lie algebras in mathematics and physics (Bose-Fermi symmetry). (**55** #11828)
 Lichnerowicz, André Construction of twisted products for cotangent bundles of classical groups and Stiefel manifolds. (**58** #7707)
 Miller, Willard, Jr. Lie theory and difference equations. II. (**47** #7087)
 Moody, Robert V. *See* Berman, Stephen Jay; et al., (**45** #3439)
 Ne'eman, Y. *See* Corwin, Lawrence; et al., (**55** #11828)
 Serena, Luigi Remarks on functors in Lie algebras. (Italian summary) (**58** #5811)
 Simonjans, L. Verbal wreath products in linear representations of groups and Lie algebras. (Russian) (**57** #3260)
 Sternberg, Shlomo *See* Corwin, Lawrence; et al., (**55** #11828)
 Vaksman, L. L. The characteristic operator-valued functions of Lie algebras. (Russian) (**51** #3930)
 Vasilescu, Florian-Horia Normed Lie algebras. (**45** #7474)
 Viennot, Gérard Factorisations des monoïdes libres et bases des algèbres de Lie libres. (**52** #603)
 Wonenburger, Maria J. *See* Berman, Stephen Jay; et al., (**45** #3439)

17Cxx Jordan algebras (commutative)

- Šestakov, I. P. *See* Ževlakov, K. A.; et al., **58** #28105
 Širšov, A. I. *See* Ževlakov, K. A.; et al., **58** #28105
 Slin'ko, A. M. *See* Ževlakov, K. A.; et al., **58** #28105
 Springer, Tonny Albert ★Jordan algebras and algebraic groups. **52** #523
 Ževlakov, K. A. (with Slin'ko, A. M.; Šestakov, I. P.; Širšov, A. I.) ★Йордановы алгебры. (Russian) [Jordan algebras] **58** #28105

17C05 Identities

- Kühn, Oda Construction of Jordan pairs by the quasi-inverse. **57** #9775
 Lewand, Robert E. (with McCrimmon, Kevin) Macdonald's theorem for quadratic Jordan algebras. **45** #8696
 McCrimmon, Kevin Koecher's principle for quadratic Jordan algebras. **45** #8697
See also Lewand, Robert E., **45** #8696
 Smith, Bruce D. A standard Jordan polynomial. **55** #3020

17C10 Structure theory

- Britten, Daniel J. On semiprime Jordan rings $H(R)$ with ACC. **53** #3048
- Devapakkiam, C. Viola Jordan algebras with continuous inverse. **45** #6882
- Foster, D. M. See Tsai, Chester, **47** #3477
- Gordon, S. Robert An integral basis theorem for Jordan algebras. **46** #7343
- Immediato, Henri See Ravatin, Jacques, **47** #297
- Jacobson, Nathan (with McCrimmon, Kevin) Quadratic Jordan algebras of quadratic forms with base points. **50** #9999
(with Katz, Jerome M.) Generically algebraic quadratic Jordan algebras. **53** #8172
(with McCrimmon, Kevin; Parvathi, M.) Localization of Jordan algebras. **58** #28106
- Katz, Jerome M. The radical of a Jordan algebra and extensions of the base field. **53** #10885
See also Jacobson, Nathan, **53** #8172
- Loos, Ottmar Existence and conjugacy of Cartan subalgebras of Jordan algebras. **51** #5693
- Loustau, J. A. The structure of Jordan H -algebras. **52** #13965
- McCrimmon, Kevin Speciality of quadratic Jordan algebras. **45** #5185
Solvability and nilpotence for quadratic Jordan algebras. **53** #5686
The generic norm of an isotope of a Jordan algebra. **53** #8173
Speciality and reflexivity of quadratic Jordan algebras. **56** #8650
Malcev's theorem for Jordan algebras. **58** #28107
Axioms for inversion in Jordan algebras. **51** #9776
See also Jacobson, Nathan, **50** #9999 and Jacobson, Nathan; et al., **58** #28106
- Meyberg, Kurt A characterisation of von Neumann regular Jordan triple systems. **51** #12970
- Nekrasova, E. G. Certain properties of the Zorn-Paige construction. (Russian) **46** #5410
- Ng, Seong Nam Jordan rings with involution. **53** #3049
- Osborn, J. Marshall Representations and radicals of Jordan algebras. **58** #5821
- Parvathi, M. See Jacobson, Nathan; et al., **58** #28106
- Petersson, Holger P. Borel subalgebras of alternative and Jordan algebras. **52** #8209
Lokal kompakte Jordan-Divisionsringe. **51** #634
Reduced simple Jordan algebras of degree three over a field with a discrete valuation. **51** #5694
Reduced Jordan matrix algebras over complete local rings. **57** #9777
- Ravatin, Jacques (with Immediato, Henri) Polynômes d'algèbres de Jordan et propriétés d'algèbres de Jordan spéciales. **47** #297
Éléments R -inversibles d'une algèbre de Jordan commutative et algèbres de Jordan du type de Baer. **51** #3248
- Rowen, Louis Halle Nonassociative rings satisfying normal polynomial identities. **57** #9778
- Slin'ko, A. M. The radicals of Jordan rings. (Russian) **48** #361
The lower nilradical in Jordan algebras with a maximality condition. (Russian) **58** #22212
- Springer, Tonny Albert Algebras. (Dutch) **48** #362
- Tsai, Chester An internal characterization of the prime radical of a Jordan algebra. **47** #1898
(with Foster, D. M.) Primary ideal theory for quadratic Jordan algebras. **47** #3477

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- Baxter, Willard E. (with Casciotti, L. A.) Rings with involution and the prime radical. (55 #8089)
- Casciotti, L. A. See Baxter, Willard E., (55 #8089)
- Devapakkiam, C. Viola Hilbert space methods in the theory of Jordan algebras. I. (52 #1330)
- Goodaire, Edgar G. The centralizer of a Cartan subalgebra of a Jordan algebra. (57 #378)
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Sitarum, K. On some special non-associative rings. **58** #22221

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Strano, Rosario Sugli anelli a sottogruppi additivi tutti sottoanelli. **49** #2874

Sweet, Lowell On the triviality of homogeneous algebras over an algebraically closed field. **51** #637

Vasil'ev, P. I. Minimal dimension of nonbiisotropic KM-algebras. (Russian) **48** #8590

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Co-semisimple modules and nonassociative V -rings. **56** #5675

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Arnautov, V. I. The topologizability of infinite rings. (Russian) **45** #3485)

Batbedat, André Préalgebres contenant un idempotent associatif. (Italian summary) **56** #5665)

Beck, Robert E. (with Kolman, Bernard) Polynomial differential equations. **58** #1394)

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Buoncrisiani, A. M. The Cayley algebra and linear field equations. **51** #4871)

Gonsbor, Harry Contributions to genetic algebras. II. **48** #3522)

Gordon, William B. An application of Hadamard's inverse function theorem to algebra. **54** #12742)

Grobler, Jacobus J. The theory of prime ideals in pseudorings. (Afrikaans. English summary) **46** #1855)

Heuch, Ivar Genetic algebras for systems with linked loci. **58** #33116)

Holmes, John P. (with Sagle, Arthur A.) Problems in H -spaces and nonassociative algebras. **58** #13010)

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Kurinnii, G. Ć. A remark on the evolution spectrum of genetic algebras. (Russian) **57** #18881)

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Myung, Hyo Chul A characterization of the Jacobson radical in ternary algebras. **49** #363)

Nasirov, S. N. A description of the closed maximal ideals of a class of nonassociative algebras. (Russian) **57** #13836)

- Ne'eman, Y. (with Sherry, T. N.) Graded spin-extension of the algebra of volume-preserving deformations. (58 #14512)
- Rabaztyn, Szymon On the finite dimensional representations of the pseudo-Lie algebras. (56 #7523)
- Röhrl, Helmut A theorem on non-associative algebras and its application to differential equations. (58 #22061)
- Sagle, Arthur A. (with Schumi, J. R.) Multiplications on homogeneous spaces, nonassociative algebras and connections. (51 #11361)
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- Schumi, J. R. See Sagle, Arthur A., (51 #11361)
- Sherry, T. N. See Ne'eman, Y., (58 #14512)
- Stephenson, Robert Allan Jacobson structure theory for Hestenes ternary rings. (49 #364)
- Wisbauer, Robert Zentrale Bimoduln und separable Algebren. (58 #11041)
- Yamaguti, Kiyosi On weak representations of a class of ternary systems. (52 #14129)
- Zotov, A. K. Isotopies of ternary rings. (Russian) (58 #2600)
Coordinatizations of a projective plane. (Russian) (58 #30738)

18-XX CATEGORY THEORY, HOMOLOGICAL ALGEBRA

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- Arbib, Michael (with Manes, Ernest Gene) ★Arrows, structures, and functors. 51 #638
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- Borceux, Francis Foncteurs adjoints relatifs en algèbre en analyse et en géométrie. 58 #821
- Brinkmann, Hans-Berndt Kategorien und lineare Algebra. 53 #5688
- Georgescu, George An example of a category in which every object is projective. (Romanian) 48 #2208
- Hilton, Peter John ★Tópicos de álgebra homológica. (Portuguese) [Topics on homological algebra] 54 #10368
Direkte Systeme von Gruppen. 51 #8195
Categories and functors. (Romanian) 49 #5113
- Junek, Heinz Jürgen Über Hüllenoperationen, Reflektoren und Ideale. (Russian and English summaries) 56 #3080
- Manes, Ernest Gene See Arbib, Michael, 51 #638
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- Strooker, Jan R. ★Introduction to categories, homological algebra and sheaf cohomology. 58 #16815
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- Hilton, Peter John (with Wu, Yel Chiang) ★A course in modern algebra. (49 #10475)
- Wiweger, Antoni Difficulties with the empty set. (Polish) (56 #11798)
- Wu, Yel Chiang See Hilton, Peter John, (49 #10475)

18-02 Advanced exposition (research surveys, etc.)

- Arbib, Michael (with Manes, Ernest Gene) Basic concepts of category theory applicable to computation and control. 52 #3265
- Balcerzyk, Stanisław ★Wstęp do algebry homologicznej. (Polish) [Introduction to homological algebra] 53 #13340
★Wstęp do algebry homologicznej. (Polish) [Introduction to homological algebra] 53 #13341
- Bucur, Ion (with Deleanu, Aristide) ★Введение в теорию категорий и функторов. (Russian) [Introduction to the theory of categories and functors] 50 #2283
- Calenko, M. Š. (with Šul'geifer, E. G.) ★Лекции по теории категорий. (Russian) [Lectures in category theory] 54 #5309
(with Šul'geifer, E. G.) ★Основы теории категорий. (Russian) [Foundations of category theory] 51 #10425
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- Gray, Eva See Schubert, Horst, 50 #2286
- Herrlich, Horst (with Strecker, George, E.) ★Category theory: an introduction. 50 #2284
- Hilton, Peter John (with Stambach, Urs) ★A course in homological algebra. 49 #10751
See also Bucur, Ion; et al., 50 #2283
- (Johnstone, Peter T.) See Indexed categories and their applications, 58 #16816
- MacLane, Saunders ★Homology. 50 #2285
★Categories for the working mathematician. 50 #7275
★Kategorien. Begriffssprache und mathematische Theorie. 50 #7276
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- Manes, Ernest Gene See Arbib, Michael, 52 #3265
- Mitchell, Barry Introduction category theory and homological algebra. 52 #3266
- (Parré, Robert) See Indexed categories and their applications, 58 #16816
- Pareigis, Bodo Algebraische Kategorien. 50 #4683
- Preuß, Gerhard ★Grundbegriffe der Kategorientheorie. 53 #8175
- (Raikov, D. A.) See Bucur, Ion; et al., 50 #2283
- (Retah, V. S.) See Bucur, Ion; et al., 50 #2283
- Rotman, Joseph J. ★Notes on homological algebras. 53 #13342
- Schubert, Horst ★Categories. 50 #2286
- Stambach, Urs See Hilton, Peter John, 49 #10751
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- Vina Escalar, A. ★Extensiones esenciales. (Spanish) [Essential extensions] 47 #1906
- Indexed categories and their applications ★Indexed categories and their applications 58 #16816

Secondary classifications:

- Adamson, Iain T. ★Rings, modules and algebras. (48 #11175)
- Bass, Hyman ★Introduction to some methods of algebraic K-theory. (50 #441)
- Faith, Carl ★Algebra: rings, modules and categories. I. (51 #3206)
- Lafon, Jean Pierre ★Les formalismes fondamentaux de l'algèbre commutative. (51 #465)

18-03 Historical

Secondary classifications:

- (Eilenberg, Samuel) See MacLane, Saunders, (54 #2387)
- MacLane, Saunders The work of Samuel Eilenberg in topology. (54 #2387)

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- (Hardie, K. A.) See Proceedings: Symposium on Categorical Topology, 58 #16817
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 Borceux, Francis (with Lavendhomme, René) *Une axiomatique de l'algèbre catégorique relative*, 48 #365
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Bokštejn, M. F. Directed abelian categories. (Russian) (46 #232)
 Fiby, Rudolf A functorial construction of fibre bundles with a structural group, (48 #1229)
 Fukawa, Masami General theory of categories, (46 #234)
 Hofer, Robert D. Restrictive semigroups of continuous functions on O -dimensional spaces, (45 #5983)
 Pultr, Aleš Remarks on dispersed (fuzzy) morphisms, (58 #836)
 Radu, Gheorghe Gh. The generalized source functor. (Romanian. French summary) (46 #7241)
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18A10 Graphs, groupoids, neofunctors [See also 20Lxx.]

Coppey, Laurent *Décompositions directes des précatégories*, 58 #11056
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 Lair, Christian Structures algébriques duales, involutives et commutatives, 50 #2290
 Topenčarov, Vladimir V. Éléments de la théorie des catégories polyadiques, 50 #13181

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Robinson, Julia Hilbert's tenth problem, (47 #4782)

18A15 Foundations, relations to logic and deductive systems [See also 02–XX.]

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 "Aspects of topoi" (Bull. Austral. Math. Soc. 7 (1972), 1–76): Corrigenda and acknowledgements, 54 #7571
 Johnstone, Peter T. The associated sheaf functor in an elementary topos, 50 #10002
 Koubek, Václav (with Reiterman, Jan) A set functor which commutes with all homfunctors is a homfunctor. (Loose Russian summary) 53 #5690
 Kühnrich, Martin Das Yoneda-Lemma in der Zermelo-Fraenkelschen Mengentheorie, 58 #16818
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Mijoule, Richard Catégories hilbertiennes et modèles caractéristiques. 45 #5194

Mitchell, William J. On topoi as closed categories. 50 #427

Mulvey, Christopher J. A remark on the prime stalk theorem. 57 #397

Ohkuma, Tadashi Finitary objects and ultrapowers. 48 #2210

Penk, Anna Michaelides Two forms of the axiom of choice for an elementary topos. 51 #5698

Preller, Anne Langages à graphes et schéma de séparation. 58 #28118

Reiterman, Jan See Koubek, Václav, 53 #5690

Reyes, Gonzalo E. From sheaves to logic. 50 #13182

Schlomiuk, Dana I. Topos di Grothendieck e topos di Lawvere e Tierney. (English summary) 51 #3252

Tierney, Myles Axiomatic sheaf theory: some constructions and applications. 50 #7277

Wraith, Gavin Artin glueing. 49 #9040

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de Alcantara, Luiz Paulo On a system of Feferman. (53 #131)

Blanc, Georges (with Preller, Anne) Un modèle de la théorie des catégories de Lawvere pour lequel $N=1$. (48 #91)

(with Preller, Anne) Lawvere's basic theory of the category of categories.

(55 #2554)

(with Rambaud, Christiane) Théories formelles sur graphe. (English summary)

(54 #9983)

Blass, Andreas Exact functors and measurable cardinals. (54 #2466 (E 57 #9547))

da Costa, Newton C. A. Modèles et univers de Dedecker. (46 #3310)

α -models and the systems T and T^* . (52 #2881)

Donnadieu, Marie-Renée Démonstration du théorème de construction de catégories d'après description de Lawvere sous certains axiomes. (English summary)

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Fittler, Robert Categories with ultraproducts. (48 #3734 (E 49 #380))

Georgescu, George (with Petrescu, Ioana) Model-completion in categories. (Italian summary) (58 #21576)

Germano, Giorgio Une formalisation simple de la théorie des catégories. (54 #2445)

Grosche, Günter Syntaktische Untersuchungen zu Mathematischen Sprachen. III. (47 #33)

Hirose, Ken (with Iida, Shigeaki) A meta-axiom on categories. (53 #2678)

Hutchinson, George Recursively unsolvable word problems of modular lattices and diagram-chasing. (48 #10925)

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- Reiterman, Jan** See **Šedivá-Trnková, Věra**; et al., **51** #8203 and **Koubek, Václav**, **52** #13987
- Sakemi, Yasuhiro** Minimal realizations of implicit λ -machines. **58** #832
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- Automata and categories. **52** #13985
- Minimal realizations for finite sets in categorical automata theory. **51** #8202
- (with Adámek, Jiří; Koubek, Václav; Reiterman, Jan) Free algebras, input processes and free monads. **51** #8203
- (with Adámek, Jiří) Realization is not universal. **58** #16825
- Relational automata in a category and their languages. **58** #16826
- See also **Adámek, Jiří**, **57** #12636
- Siebert, Gert** See **Grassmann, Hubert**, **51** #12981
- Simonov, V. M.** See **Buslenko, N. P.**, **58** #16824
- Sols, Ignacio** See **Meseguer Gualta, José**, **53** #3058
- Thatcher, James W.** See **Goguen, Joseph A., Jr.**; et al., **54** #10373
- Wagner, Eric G.** See **Goguen, Joseph A., Jr.**; et al., **54** #10373
- Wright, Jesse B.** See **Goguen, Joseph A., Jr.**; et al., **54** #10373

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- Alagić, Suad** Natural state transformations. (**52** #5228)
- Anderson, B. D. O.** A control theorist looks at abstract nonsense. (**52** #10149)
- (with Arbib, Michael; Manes, Ernest Gene) ★Foundations of system theory: finitary and infinitary conditions. (**58** #26208)
- Arbib, Michael** Coproducts and decomposable machines. (**49** #10459)
- (with Manes, Ernest Gene) ★Arrows, structures, and functors. (**51** #638)
- (with Manes, Ernest Gene) Fuzzy morphisms in automata theory. (**53** #7648)
- See also **Anderson, B. D. O.**; et al., (**58** #26208)
- Bainbridge, E. S.** Addressed machines and duality. (**53** #2553)
- Systems as bimodules. (**58** #15329)
- Benson, David B.** An abstract machine theory for formal language parsers. (**52** #2282)
- Betti, Renato** Una proprietà universale dei sistemi discreti. (English summary) (**57** #18895)
- Brunner, Jürgen** (with Hamann, Claude-Joachim) Redundanz und Komposition von Automaten. (Russian. English and French summaries) (**49** #8757)
- (with Hamann, Claude-Joachim) Redundanz und Komposition von Automaten. (**49** #8758)
- Budach, Lothar** Automata in additive categories with applications to stochastic linear automata. (**53** #5203)
- Carlson, Lee A.** Realization is continuously universal. (**52** #12865)
- Chaudhry, Muhammad Anwar** Time-varying sequential machines in a category. (**54** #9886)
- Claus, Volker** See **Hotz, Günter**, (**53** #1995)
- Ehrig, Hartmut** (with Kühnel, Wolfgang) ★Topological automata. (**55** #14445)
- (with Kühnel, Wolfgang; Pfender, Michael) Diagram-characterization of recursion. (**53** #1999)
- Elgot, Calvin C.** Monadic computation and iterative algebraic theories. (**54** #1698)
- Ersöv, Ju. L.** ★Теория нумераций. Часть I: Общая теория нумераций. (Russian) [The theory of numerations. Part I: General theory of numerations] (**46** #3280)
- Computable enumerations of morphisms. (Russian) (**46** #5124)
- Fried, Jan** Simulations of Pawlak machines as fuzzy morphisms of partial algebras. (**56** #11642)
- Goguen, Joseph A., Jr.** On homomorphisms, correctness, termination, unfoldments, and equivalence of flow diagram programs. (**51** #9558)
- Hamann, Claude-Joachim** See **Brunner, Jürgen**, (**49** #8757) and **Brunner, Jürgen**, (**49** #8758)
- Hochnke, Hans-Jürgen** On partial recursive definitions and programs. (**58** #25095)
- Hotz, Günter** (with Claus, Volker) ★Automatentheorie und formale Sprachen. (**53** #1995)
- Kühnel, Wolfgang** See **Ehrig, Hartmut**; et al., (**53** #1999) and **Ehrig, Hartmut**, (**55** #14445)
- Kürka, Petr** Applicability of a production in a categorical grammar. (**58** #8529)
- Manes, Ernest Gene** See **Arbib, Michael**, (**51** #638); **Arbib, Michael**, (**53** #7648); **Anderson, B. D. O.**; et al., (**58** #26208) and **Bibliography: Category theory**, (**56** #24)
- Markowsky, George** Categories of chain-complete posets. (**56** #11859)
- Medvedev, M. Ja.** A categorical description of automata. I. (Russian) (**57** #19182)
- Meiřus, V. Ju.** Transforming categories and finite transformers. I. (Russian. English summary insert) (**58** #20905a)
- Transforming categories and finite transformers. II. (Russian. English summary insert) (**58** #20905b)
- Melikadze, N. L.** Decomposition of automata in categories. (Russian. Georgian and English summaries) (**56** #5087)
- Meseguer Gualta, José** (with Sols, Ignacio) Automata in semimodule categories. (**51** #15140)
- Pavel, Monique** Pattern recognition categories. (**57** #1997)
- Peeva, Ketty G.** See **Topenčarov, Vladimir V.**, (**58** #15746)
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- Plotkin, G. D.** See **Smyth, Michael B.**, (**58** #8459)
- Rine, David C.** The behavior of programs in the structure of 2-categories. (**57** #8127)
- Smyth, Michael B.** (with Plotkin, G. D.) The category-theoretic solution of recursive domain equations (extended abstract). (**58** #8459)
- Sols, Ignacio** Logic, foundations, geometry and automata in the realm of topoi. (Spanish) (**56** #15419)
- See also **Meseguer Gualta, José**, (**51** #15140)
- Topenčarov, Vladimir V.** (with Peeva, Ketty G.) A reflexive subcategory of the category of stochastic automata. (Romanian summary) (**58** #15746)
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- Wätjen, Dietmar** Darstellung der Kategorie der determinierten Automaten als algebraische Kategorie. (**53** #2561)
- Wechler, Wolfgang** Automaten über Inputkategorien. (English and Russian summaries) (**55** #2418)
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- Constantinescu, Corneliu** A remark concerning the category of ultrafilters. **50** #433
- Fay, Temple H.** An axiomatic approach to categories of topological algebras. **58** #833
- Fiby, Rudolf** Extensions of polylinear mappings. **48** #4074a
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- Hatcher, William S.** Birkhoff categories. **46** #7348
- Herrlich, Horst** (with Strecker, George, E.) Coreflective subcategories in general topology. **46** #1872
- Hoffmann, Rudolf-Eberhard** Note on semi-topological functors. **57** #12639
- Johnstone, Peter T.** ★Topos theory. **57** #9791
- Koubek, Václav** See **Šedivá-Trnková, Věra**, **48** #8596 (EA **51**)
- Kučera, Luděk** On universal concrete categories. **53** #8187
- Kürková-Pohlová, Věra** Factorization and non-algebraic categories. **49** #376
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- Leroux, Pierre** Une caractérisation de la catégorie des groupes. **47** #8647
- Martinez Calvo, Maria Cristina** (with Pérez de Vargas, Alberto) Some topological concepts in a certain functionally coherent category. (Spanish) **58** #22229
- Meloni, Gian Carlo** See **Bozzi, Silvio**, **58** #16827
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- Pérez de Vargas, Alberto** See **Martinez Calvo, Maria Cristina**, **58** #22229
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- Rodriguez Gonzalez, N.** ★Preinteriores, resolubilidad y nilpotencia en categorías. (Spanish) [Pre-interiors, solvability and nilpotency in categories] **58** #22231
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- Solian, Alexandru** Groupe dans une catégorie. **47** #5076
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- Ginali, Susanna See Bloom, Stephen L.; et al., 58 #837
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- Johnstone, Peter T. Internal categories and classification theorems. 53 #581
- Adjoint lifting theorems for categories of algebras. 52 #10845
- Kaphengst, Heinz (with Reichel, Horst) Operative Theorien und Kategorien von operativen Systemen. 50 #4693
- Kennison, John F. Structure and costructure for strongly regular rings. 51 #8204
- Klun, Miroslav I. See Isbell, John R.; et al., 57 #12640
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- Krupková, Vlasta Algebraic theories. (Czech. English and Russian summaries) 52 #8219
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- Étude générale de la catégorie des esquisses. 54 #10375
- Lambek, Joachim Functional completeness of cartesian categories. 49 #5121
- Laplaza, Miguel L. Coherence for associativity not an isomorphism. 45 #6885
- Lawvere, F. William Introduction. 51 #12982
- Lesaffre, Brigitte Structures algébriques dans les topos élémentaires. 48 #8597
- Théories algébriques internes dans les topos. (English summary) 58 #11062
- Manes, Ernest Gene ★Algebraic theories. 54 #7578
- Marchini, Carlo Alcune osservazioni sugli Ω -gruppi nelle categorie. (English summary) 47 #1909
- Meseguer Guaita, José On order-complete universal algebra and enriched functorial semantics. 57 #12641
- See also Kühnel, Wolfgang; et al., 57 #6138
- Meyer, Jean-Pierre Induced functors on categories of algebras. 50 #13187
- Montali, Tiziana Un'osservazione sui funtori che conservano i prodotti finiti. (English summary) 48 #2215
- Otal Cinca, Javier ★Clases especiales de objetos en una categoría de Kurosh. (Spanish) [Special classes of objects in a Kurosh category] 58 #838
- Penon, Jacques Catégories localement internes. 51 #10435
- Pfender, Michael See Kühnel, Wolfgang; et al., 57 #6138
- Pták, Pavel See Koubek, Václav, 58 #11061
- Reichel, Horst See Kaphengst, Heinz, 50 #4693
- Reynolds, George D. Adequacy in topology and uniform spaces. 51 #5705
- Rossi, Fabio A-categorie e T-algèbre. (English summary) 54 #377a
- A-categorie e categorie relative di funtori. (English summary) 54 #377b (E 57 #6139)
- Errata: "A-categorie e categorie relative di funtori" (Rend. Ist. Mat. Univ. Trieste 7 (1975), no. 2, 169-172). 57 #6139
- Rutledge, Joseph D. See Bloom, Stephen L.; et al., 58 #837
- Schanuel, Stephen H. See Isbell, John R.; et al., 57 #12640
- Servi, Mario Su alcuni funtori che conservano le SH. (English summary) 55 #10540
- Shannon, Richard T. Lazard's theorem in algebraic categories. 50 #4694
- Sols, Ignacio See Kühnel, Wolfgang; et al., 57 #6138
- Sydney, Walter Homfunctoren für die Topologie. 58 #5835
- Volger, Hugo Completeness theorem for logical categories. 51 #12983
- Logical categories, semantic categories and topoi. 51 #12984
- Wand, Mitchell Free, iteratively closed categories of complete lattices. (French summary) 54 #10376
- Wischniewsky, Manfred Bernd Aspects of categorical algebra in initial structure categories. (French summary) 52 #3273
- On topological algebras relative to full and faithful dense functors. 56 #5679
- Wraith, Gavin Algebras over theories. 46 #231
- Lectures on elementary topoi. 52 #13989
- Wyler, Oswald The Zassenhaus lemma for categories. 45 #8703
- See also Fritsch, Rudolf, 45 #8704
- Yoh, Richard W. The M -generated algebraic theories. 50 #434

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- Greve, Georg The closed radical of a functor $V: C \rightarrow \text{SET}$. (58 #5844)
- Refterman, Jan One more categorical model of universal algebra. (58 #16464)

18C10 Theories (e.g. algebraic theories), structure, and semantics

- Barthélemy, Jean-Pierre Sur les structures définies par des graphes multiplicatifs avec des cônes. 49 #2882
- Bednarczyk, Nadine Quasi-noyaux d'espèces de structures. 52 #530
- Blanc, Georges Foncteurs types et structures. 51 #3256
- Bloom, Stephen L. (with Ginali, Susanna; Rutledge, Joseph D.) Scalar and vector iteration. 58 #837
- Borceux, Francis (with Day, Brian) On characterisation of finitary algebraic categories. 58 #5834
- Bourn, Dominique Objets de Kleisli et d'Eilenberg-Moore d'un triple dans une

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- Georgescu, George The theory of categories, and mathematical logic. (Romanian) (52 #10415)
- Goguen, Joseph A., Jr. See Wright, Jesse B.; et al., (57 #18202)
- Hug, Syed A. Categorical properties of free algebras. (53 #7904)
- Isbell, John R. (with Klun, Miroslav I.; Schanuel, Stephen H.) Affine parts of algebraic theories. I. (55 #2555)
- Keane, Orville Abstract Horn theories. (52 #2871)
- Klun, Miroslav I. See Isbell, John R.; et al., (55 #2555)
- Laita, Luis M. A study of algebraic logic from the point of view of category theory. (Spanish. English summary) (55 #7772)
- Makkai, Michael (with Reyes, Gonzalo E.) ★First order categorical logic. (58 #21600)
- Mansfield, Richard Sheaves and normal submodels. (58 #21580)
- Montali, Tiziana Pseudolimiti e formule SH. (52 #39)

- Obtulowicz, Adam** Functorial semantics of the type free λ - $\beta\eta$ calculus. (58 #16178)
- Reiterman, Jan** One more categorical model of universal algebra. (58 #16464)
- Reyes, Gonzalo E.** Sheaves and concepts: a model-theoretic interpretation of Grothendieck topoi. (58 #5184)
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- Roisin, J.-R.** Introduction à une approche catégorique en théorie des modèles. (57 #16068)
- Schanuel, Stephen H.** See **Isbell, John R.**; et al., (55 #2555)
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- Topenčarov, Vladimir V.** Ringoids. I, II. (Bulgarian. Russian and French summaries) (45 #3484)
- Wagner, Eric G.** See **Wright, Jesse B.**; et al., (57 #18202)
- Wright, Jesse B.** (with Thatcher, James W.; Wagner, Eric G.; Goguen, Joseph A., Jr.) Rational algebraic theories and fixed-point solutions. (57 #18202)

18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [See also 18Gxx.]

- Adámek, Jiří** Free algebras and automata realizations in the language of categories. 50 #4696
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- Arnoudov, Ja. N.** See **Topenčarov, Vladimir V.**, 58 #28124
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- Burroni, Albert** T -catégories (catégories dans un triple). 46 #7350
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- Ertel, Hans-Georg** Topologische Algebrenkategorien. 50 #13189
- Fajtlowicz, Siemion** Duality for algebras. 58 #11063
- Fisher-Palmquist, Janet** (with Newell, David C.) Triples on functor categories. 48 #2218
- Frei, Armin** (with MacDonald, John L.) Algebras, coalgebras and cotripleability. 51 #5706
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- Freire Nistal, J. L.** ★Propiedades universales en triples de grado superior. (Spanish) [Universal properties in triples of higher degree] 50 #7286
 M -idempotent triples of higher degree. (Spanish) (See Zbl 276 #18006)
- García-Rodeja Fernández, E.** Powers of triples of higher degree. (Spanish) 49 #377
- Ghullam, Sabah A.** Free objects in category theory. (Arabic summary) 52 #5763
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- Guitart, René** Sur les fonctions associées à la notion de sous-structure. 47 #6807
Sur les idempotents dans les triples et la description des structures. 46 #9139
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Topologie dans les univers algébriques. 58 #839
Calcul des relations inverses. 55 #12789
- Hacque, Michel** Quelques remarques sur les triples. 51 #3257
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18F30 Grothendieck groups [See also 13D15, 16A54.]

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18G05 Projectives and injectives [See also 13C10, 16A50, 16A52.]

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18G10 Resolutions; derived functors [See also 18E25.]

- Bachmann, Franz A note on induced modules and homology of categories. 52 #14002
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18G15 Ext and Tor, generalizations, Künneth formula [See also 55J25.]

- Basarab, Şerban A. Cofibered categories and noncommutative H^2 . (Romanian. French summary) 51 #12996
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- Foxby, Hans-Björn (with Thorup, Anders) Minimal injective resolutions under flat base change. (56 #11984)
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18G20 Homological dimension [See also 13Dxx, 16A62.]

- Baptista-de-Campos, M. Une théorie axiomatique de la dimension. 52 #14003
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18G25 Relative homological algebra, projective classes

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18G30 Simplicial sets, simplicial objects (in a category) [See also 55J10.]

- Balcerzyk, Stanisław (with Chan, Phan Huu; Kiełpiński, Roman) On three types of simplicial objects. 55 #461
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18G35 Chain complexes [See also 18E30, 55J15.]

- Arnold, James E., Jr.** Chain equivalences and Schanuel's lemma. 51 #8214
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Singer, William M. Iterated loop functors and the homology of the Steenrod algebra. (53 #1581)

18G40 Spectral sequences, hypercohomology [See also 55Hxx.]

- Adams, John Frank** (with Margolis, Harvey) Modules over the Steenrod algebra. 45 #3520
Bachmann, Franz ★Kategorische Homologietheorie und Spektralsequenzen. 46 #3597
Evens, Leonard The spectral sequence of a finite group extension stops. 55 #3032
Glaus, Christian ★Mayer-Vietoris-Funktoren und Kompositionsfunktoren. 52 #3287
Heydemann, M. C. (with Vigué-Poirrier, Micheline) Étude de certaines algèbres différentielles. 50 #446
 (with Vigué-Poirrier, Micheline) Étude de certaines algèbres différentielles. 50 #447
Huebschmann, Johannes Sur les premières différentielles de la suite spectrale cohomologique d'une extension de groupes. (English summary) 57 #12649
Inasaridze, H. N. A generalization of the Milnor sequence for inverse limits. (Russian. Georgian and English summaries) 53 #8199
Johansson, B. G. On convergence of spectral sequences. 48 #4078
Margolis, Harvey See **Adams, John Frank**, 45 #3520
Nomura, Yasutoshi An exact sequence generalizing a theorem of Lambek. 45 #6886
R-Grandjean L-Valcárcel, A. Exact couples and spectral sequences. (Spanish) 50 #4706
Rozenknop, I. Z. Spectral sequences that are associated with a monomial filtration. (Russian) (See *RZMat* 1973 #11 A364; *MR* 52 #7974)
Strooker, Jan R. (with Villamayor, Orlando E.) A spectral sequence for double complexes of groups. 52 #14004
Succi, Francesco Una categoria di germi di successioni spettrali. (English summary) 54 #2762
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Vigué-Poirrier, Micheline See **Heydemann, M. C.**, 50 #446 and **Heydemann, M. C.**, 50 #447
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Secondary classifications:

- Gugenheim, V. K. A. M.** (with May, J. Peter) ★On the theory and applications of differential torsion products. (52 #15519)
Hilton, Peter John (with Stambach, Urs) On the differentials in the Lyndon-Hochschild-Serre spectral sequence. (48 #2271)
Kamber, Franz W. (with Tondeur, Philippe) Cohomologie des algèbres de Weil relatives tronquées. (47 #9660)
 (with Tondeur, Philippe) Algèbres de Weil semi-simpliciales. (47 #9661)
 (with Tondeur, Philippe) Homomorphisme caractéristique d'un fibré principal feuilleté. (47 #9662)
Kamps, Klaus Heiner Zur Homotopietheorie von Gruppoiden. (47 #3571)
May, J. Peter See **Gugenheim, V. K. A. M.**, (52 #15519)
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Sáenz Lorenzo, José Félix The spectral sequence of homology. (Spanish) (50 #3226)
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Stambach, Urs See **Hilton, Peter John**, (48 #2271)
Tondeur, Philippe See **Kamber, Franz W.**, (47 #9660); **Kamber, Franz W.**, (47 #9661) and **Kamber, Franz W.**, (47 #9662)

18G99 None of the above, but in this section

- Adámek, Jiří** Cogeneration of algebras in regular categories. 55 #3033
Atiyah, M. F. (with Segal, Graeme B.) Exponential isomorphisms for λ -rings. 45 #344
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Choo, Koo Guan The projective class group of the fundamental group of a surface is trivial. 48 #2222
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Helzer, Garry Semi-primary split rings. 47 #8657
Keesling, James E. Algebraic invariants in shape theory. 56 #15732
Kumar, Kiran A note on complex. 55 #462
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- Kuz'minov, V. I.** (with Švedov, I. A.) Quasixact sequences of complexes, and hyperhomology. (Russian) 49 #7335
Northcott, D. G. Duality and the theory of complexes. 45 #5200
R-Grandjean L-Valcárcel, A. Théorème de Jordan-Hölder dans les *G*-catégories. 46 #1885
Rine, David C. Functor-wise equivalences. 51 #5713
Rozenknop, I. Z. Relations between polynomials and the algebra of H. Cartan. (Russian) 45 #6889
 Polynomial ideals that are generated by monomials. (Russian) 45 #6890
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Švedov, I. A. See **Kuz'minov, V. I.**, 49 #7335
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Secondary classifications:

- Baker, Daniel** Differential characters and Borel cohomology. (58 #31127)
Balcerzyk, Stanisław On Inasaridze satellites relative to traces of presheaves of categories. (Russian summary) (56 #15729)
Bauer, Friedrich-Wilhelm Boardman's category and the process of categorical stabilization. (49 #6234)
Castellet, Manuel Euler characteristic and categories of fractions. (Spanish) (50 #1254)
Drozd, Ju. A. Matrix problems, and categories of matrices. (Russian) (49 #5037)
Frel, Armin (with Piccinini, Renzo A.) Left Kan extensions of weakly stable functors. (58 #5824)
Gorbačuk, O. L. Radicals in modules over various rings. (Russian) (45 #6850)
Grandis, Marco Quasi-inverse involution categories, inverse categories. (Italian summary) (58 #5831)
Kil'p, Mati On the homological classification of monoids. (Russian) (45 #8755)
Kobayashi, Yuji The Hilbert series of some graded algebras and the Poincaré series of some local rings. (58 #5643)
Lee, Ming Jung A generalized Mayer-Vietoris sequence. (51 #9047)
Morita, Kiyoti ★Localization in categories of modules. (54 #5284)
Nassopoulos, George F. Tensor products of algebras. (Greek summary) (52 #5742)
Piccinini, Renzo A. See **Frel, Armin**, (58 #5824)
Roiter, A. V. Matrix problems, and representations of bisystems. (Russian) (49 #5036)
Schochet, Claude ★Cobordism from an algebraic point of view. (45 #6020)
Servi, Mario Questioni di algebra universale in una categoria astratta. II. (English summary) (47 #115)
Ubeda Bescansa, L. Lambek invariants in Hofmanian categories. (Spanish) (56 #8658)

18Hxx Cohomology of specified algebraic systems

18H05 General methods; models [See also 18E25, 18G25.]

- Amaro Caamaño, B.** The universal coefficient theorem for cohomology. (Spanish) 48 #8603
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 Erratum and supplement to: "Cohomology of associative triple systems" (Proc. Amer. Math. Soc. 60 (1976), 1–7 (1977)). 57 #6148
 (Chase, Stephen U.) See **Suzuki, Shōsuke**, 56 #8661
Cheng, Charles Ching-an (with Mitchell, Barry) DCC posets of cohomological dimension one. 58 #22248
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Wagoner, John B. Stability for homology of the general linear group of a local ring. 54 #5320

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- Balcerzyk, Stanisław** On the homology of the join of two categories. (58 #5859)

18H10 Cohomology and homology of groups [See also 20Jxx.]

- (Alperin, Roger C.) See **Brown, Kenneth S.**, 58 #28143
Barratt, Michael (with Priddy, Stewart B.) On the homology of non-connected monoids and their associated groups. 47 #3489
Basarab, Șerban A. Cohomologie des petites catégories. 50 #7295
Berkson, Astrid J. (with McConnell, Alan) Long exact sequences and the transgression relation. 48 #379
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Bieri, Robert (with Eckmann, Beno) Groupes à dualité homologique. 49 #2897
 Mayer-Vietoris sequences for HNN-groups and homological duality. 52 #3288
 (with Eckmann, Beno) Cobordism for Poincaré duality groups. 52 #14007
Bousfield, A. K. Homological localization towers for groups and Π -modules. 56 #5688
Brown, Kenneth S. Cohomology of groups. 58 #28143
Brown, Ronald Groupoids as coefficients. 47 #306

- Carlson, Jon F. Calculating some relative homology over group rings. **51** #3264
- Chapman, G. R. A class of non-central E -functors. **45** #3521
- A note on exponents of relative cohomology groups. **50** #7296
- Dedecker, Paul (with Luks, Eugene M.) Sur la non-fonctorialité du H^2 en cohomologie non abélienne. (English summary) **54** #2763
- Dwyer, William G. Vanishing homology over nilpotent groups. **51** #10442
- Eckmann, Beno See Bieri, Robert, **49** #2897 and Bieri, Robert, **52** #14007
- (Evens, Leonard) See Brown, Kenneth S., **58** #28143
- (Fiedorowicz, Zbigniew) See Brown, Kenneth S., **58** #28143
- Gildenhuys, Dion (with Mackay, E.) Triple cohomology and the Galois cohomology of profinite groups. **50** #7297
- The cohomology of groups acting on trees. **52** #5767
- Griess, Robert L., Jr. The splitting of extensions of $SL(3,3)$ by the vector space F_3^3 . **54** #12865
- Gut, Arthur (with Stambach, Urs) On exact sequences in homology associated with a group extension. **52** #8224
- Hausmann, Jean-Claude Stabilité partielle pour l'homologie de groupes spéciaux linéaires. (English summary) **52** #8225
- Heisler, David B. On the restriction map in the cohomology of groups. **55** #8150
- Hilton, Peter John (with Stambach, Urs) Two remarks on the homology of group extensions. **51** #5715
- Hoobler, Raymond T. (with Magid, Andy R.) Finite group schemes over fields. **45** #348
- Houghton, C. H. Group pairs associated with a class of coverings. **58** #11076
- Huebschmann, Johannes Extensions de groupes et paires croisées. (English summary) **58** #16846
- Hug, Syed A. Some remarks on non-abelian homological algebra. **48** #8604
- Inasaridze, H. N. The exact homology and Tate cohomology for locally compact zero-dimensional groups. (Russian. Georgian and English summaries) **49** #7336
- Jehne, Wolfgang Eine Faserprodukt-Darstellung eindimensionaler Kohomologiegruppen für bizyklische Operatorgruppen. **53** #3067
- Kitchen, Andrew T. Watts cohomology and separability. **47** #3491
- Luks, Eugene M. See Dedecker, Paul, **54** #2763
- Mackay, E. See Gildenhuys, Dion, **50** #7297
- Magid, Andy R. See Hoobler, Raymond T., **45** #348
- Majorana, James A. Duality for p -groups and their cohomology rings. **54** #12866
- Martinez, Juan José Cohomological triviality. **58** #11077
- McConnell, Alan See Berkson, Astrid J., **48** #379
- Micall, Artibano (with Théron, Jean-Daniel) Sur les groupes $A(n)$. **58** #11078
- Milgram, R. James Group representations and the Adams spectral sequence. **46** #3598
- Morris, Robert A. The inflation-restriction theorem for Amitsur cohomology. **47** #1918
- Nomura, Yasutoshi Homology of a group extension. **49** #9051
- Obayashi, Tadao The Whitehead groups of dihedral 2-groups. **52** #3289
- Pickel, P. F. Rational cohomology of nilpotent groups and Lie algebras. **58** #11079
- Priddy, Stewart B. See Barratt, Michael, **47** #3489
- Sah, Chih Han Cohomology of split group extensions. II. **57** #3217
- Scott, Leonard L. Permutation modules and 1-cohomology **56** #5689
- Solian, Alexandru ★Coomologia grupurilor. (Romanian) [Cohomology of groups] **58** #11080
- (Soulé, Christophe) See Brown, Kenneth S., **58** #28143
- Stambach, Urs See Hilton, Peter John, **51** #5715 and Gut, Arthur, **52** #8224
- Teleman, Nicolae Two homology functors. (Romanian. French summary) **49** #9052
- Théron, Jean-Daniel See Micall, Artibano, **58** #11078
- Thomas, Charles Riemann-Roch formulae for group representations. **50** #448
- The integral cohomology ring of \mathbb{G}_a . **51** #3265
- An integral Riemann-Roch formula for flat line bundles. **55** #5722
- Tolpygo, A. K. The universality of nonabelian cohomology. (Russian) **49** #7337
- Vernani, Lekh Raj The exact sequence of Hochschild-Serre in the cohomology of groups. **53** #10891
- (Wagoner, John B.) See Brown, Kenneth S., **58** #28143
- Wigner, David Algebraic cohomology of topological groups. **49** #2898
- Wu, Yel Chiang $H^3(G, A)$ and obstructions of group extensions. **57** #16387
- Secondary classifications:
- Bieri, Robert Groupes à dualité de Poincaré et groupes résolubles. (**47** #356)
- Gruppen mit Poincaré-Dualität. (**50** #4777)
- Brown, Kenneth S. High dimensional cohomology of discrete groups. (**54** #7700)
- Cameron, Peter J. Cohomological aspects of two-graphs. (**58** #21779)
- de Concini, Corrado The MOD 2 cohomology of the orthogonal groups over a finite field. (**58** #18445)
- Curran, Peter M. Cohomology of finitely presented groups. (**47** #5122 (E **49** #7358))
- Correction to: "Cohomology of finitely presented groups" (Pacific J. Math. **42** (1972), 615-620). (**49** #7358)
- Dress, Andreas W. M. ★Notes on the theory of representations of finite groups. Part I: The Burnside ring of a finite group and some AGN-applications. (**50** #13218)
- Contributions to the theory of induced representations. (**52** #5787)
- Dyer, Micheal N. Homotopy classification of (π, m) -complexes. (**53** #4050 (E **58** #2798))
- Farrell, F. Thomas An extension of Tate cohomology to a class of infinite groups. (**57** #9870)
- Fiedorowicz, Zbigniew (with Priddy, Stewart B.) Homology of classical groups over a finite field. (**58** #18444)
- Harder, G. Über die Galoiscohomologie halbeinfacher algebraischer Gruppen. III. (**52** #3352)
- Hill, Richard O., Jr. A geometric interpretation of a classical group cohomology obstruction. (**52** #11911)
- Hofmann, Karl Heinrich (with Mostert, Paul S.) ★Cohomology theories for compact abelian groups. (**51** #8330)
- Huebschmann, Johannes Sur les premières différentielles de la suite spectrale
- cohomologique d'une extension de groupes. (English summary) (**57** #12649)
- Illusie, Luc Travaux de Quillen sur la cohomologie des groupes. (**58** #7627b)
- Insel, Arnold J. Inverse limits of topological group cohomologies. (**54** #2876)
- Jeger, Franz Josef Karl ★Ueber Gruppen deren ganzzahlige Homologie in einer vorgegebenen Klasse liegt. (**58** #5973)
- Knus, Max-Albert (with Ojanguren, Manuel) A Mayer-Vietoris sequence for the Brauer group. (**51** #5572)
- Krumping, P. D. Cohomology and Goldie rings. (Russian) (**58** #28075)
- Mann, Benjamin Michael The cohomology of the symmetric groups. (**58** #18447)
- Marty, Robert Sous-groupes fonctoriels et relativisations. (**45** #5230)
- McQuillan, Donald L. On the Galois cohomology of Dedekind rings. (**54** #10221)
- Mostert, Paul S. See Hofmann, Karl Heinrich, (**51** #8330)
- Nguyen Xuan Tuyen Some functorial properties of the cohomology of monoids. (Russian. Georgian and English summaries) (**57** #12651)
- Nico, William R. A counterexample in the cohomology of monoids. (**47** #389)
- (Nummela, Eric C.) See Hofmann, Karl Heinrich; et al., (**51** #8330)
- Ojanguren, Manuel See Knus, Max-Albert, (**51** #5572)
- Priddy, Stewart B. See Fiedorowicz, Zbigniew, (**58** #18444)
- Quillen, Daniel Cohomology of groups. (**58** #7627a)
- Reggiani, Cristina Omologia di un complesso in una categoria con prodotti finiti. (**55** #8149)
- Robinson, Derek J. S. The vanishing of certain homology and cohomology groups. (**53** #8280)
- A contribution to the theory of groups with finitely many automorphisms. (**58** #28193)
- Sah, Chih Han Cohomology of split group extensions. (**52** #14083)
- Cohomology of split group extensions. II. (**57** #3217)
- Serre, Jean-Pierre ★Cohomologie Galoisienne. (**53** #8030)
- Shapiro, Jack M. On the homology and cohomology of the orthogonal and symplectic groups over a finite field of odd characteristic. (**58** #18446)
- Soulé, Christophe The cohomology of $SL_n(\mathbb{Z})$. (**57** #9908)
- Stambach, Urs ★Homology in group theory. (**52** #3360)
- Strano, Rosario Amitsur cohomology for purely inseparable extensions. (**56** #5579)
- Świerczkowski, S. On the cohomology of local groups. (**45** #2026)
- (Tate, J.) See Serre, Jean-Pierre, (**53** #8030)
- (Venkov, B. B.) See Modules and homology in group theory and Galois theory, (**48** #274)
- (Verdier, Jean-Louis) See Serre, Jean-Pierre, (**53** #8030)
- Modules and homology in group theory and Galois theory ★Модули и гомологии в теории групп и теории Галуа. (Russian) [Modules and homology in group theory and Galois theory] (**48** #274)
- 18H15 Cohomology and homology of algebras and rings [See also 16A62.]
- Bobović, F. R. Projective resolvents and cohomology triviality of p -periodic bimodules over Frobenius orders. (Russian) **49** #9053
- Cohomological triviality of bimodules over Frobenius algebras. (Russian) **58** #28144
- Chapman, G. R. On the relative group cohomology ring. **46** #1886
- Dartois, Ghislain Foncteurs additifs: Algèbres et multialgèbres. **45** #1991
- Dieng, Youssouf Cohomologie des algèbres de Weil tronquées. **48** #2223
- Dobbs, David E. On inflation and torsion of Amitsur cohomology. **47** #8659
- Doi, Yukio Cohomologies over commutative Hopf algebras. **48** #2224
- Drachman, Byron A note on principal constructions. **47** #1919
- Gadzhilaliev, N. S. Cohomology of cubic \mathbb{Z} -rings. (Russian) **48** #2225
- Gersten, Stephen M. Homotopy theory of rings. **45** #347
- A Mayer-Vietoris sequence in the K -theory of localizations. **46** #3599
- Graves, William H. Cohomology of incidence coalgebras. **51** #12998
- Green, Edward L. Smoothness and rigidity of tensor algebras and their factors. **56** #5690
- Hattori, Akira Note on the cohomology theory of associative algebras and ring extensions. **55** #3035
- Hsu, N. C. Quasi-homology and universal coefficients. **51** #654
- Hug, Syed A. Automorphisms of exact sequences. **54** #5321
- Ito, Tei-ichi (with Sadanaga, Ryoichi) On the crystallographic space groupoid. **53** #3068
- Ivanovskii, L. N. Cohomology of algebras with simple systems of generators. (Russian) **51** #655
- Jakovlev, A. V. Hopf algebras with involution over noncommutative rings, and their homology. I. (Russian) **49** #5137
- Józefiak, Tadeusz The André-Quillen homology of commutative graded algebras. **55** #464
- Kitchen, Andrew T. Algebraic Alexander-Spanier cohomology for Hausdorff algebras. **48** #380
- Lazard, Daniel Morphismes de descente. **52** #537
- Lin, Wen Hsiung Cohomology of sub-Hopf-algebras of the Steenrod algebra. II. **58** #22249
- Lue, Abraham S.-T. Cohomology of algebras relative to a variety. **47** #1920
- Martinez, Juan José Cohomological dimension of discrete modules over profinite groups. **49** #5138
- Mitchell, Barry Rings with several objects. **45** #3524
- Neroslavskii, O. M. An interpretation of $\text{Ext}_A^i(K, M)$. Homology and cohomology groups of a radical ring and of the associated group. (Russian) **47** #3490
- Riehm, Carl The corestriction of algebraic structures. **45** #8736
- Sadanaga, Ryoichi See Ito, Tei-ichi, **53** #3068
- Saitoti, George A note on the homology of a differential graded algebra. **53** #10892
- Selbt, Peter Cohomology of algebras and triple systems. **56** #3095
- Skowroński, Andrzej On the category of Abelian Hopf algebras over a non-perfect field. (Russian summary) **56** #15733

- Ślomińska, Jolanta André-Quillen cohomology for commutative coalgebras. 53 #13362
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 (Takeuchi, Mitsuhiro) See Doi, Yukio, 48 #2224
 Teleman, Silviu The theorem of de Rham for harmonic algebras. 46 #3600
 Van Osdol, Donovan H. Bicohomology theory. 48 #2226

Secondary classifications:

- Anderson, Frank W. (with Fuller, Kent R.) ★Rings and categories of modules. (54 #5281)
 Bachmann, Franz On Gruenberg resolutions for augmented algebras. (47 #1876)
 Briske, Rainer André-Homologie für gewisse Kategorien von Ringen mit Fasersumme. (55 #5887)
 Curran, Peter M. Invariant-free representations of augmented rings. (56 #3060)
 Drachman, Byron (with Kraines, David) A duality between transpotence elements and Massey products. (46 #4533)
 Fuller, Kent R. See Anderson, Frank W., (54 #5281)
 Hmeleva, L. E. The periodicity of the cohomology of Hopf algebras. (Russian) (53 #10850)
 Jakovlev, A. V. Hopf algebras with involution over noncommutative rings, and their homology. II. (Russian) (52 #536)
 Kraines, David See Drachman, Byron, (46 #4533)
 Kramm, Bruno (with Schuster, Hans-Werner) Über die Cohomologie analytischer Algebren. (56 #3356)
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 Lin, Wen Hsiung Cohomology of sub-Hopf-algebras of the Steenrod algebra. (56 #13217)
 Maharadze, L. M. The exact sequence of homotopy rings. (Russian) (58 #28142)
 Năstăsescu, Constantin ★Inele. Module. Categorii. (Romanian) [Rings. Modules. Categories] (53 #13285)
 Newman, Kenneth Sequences of divided powers in irreducible, cocommutative Hopf algebras. (45 #1957)
 Pareigis, Bodo On the cohomology of modules over Hopf algebras. (45 #8707)
 Roos, Jan Erik Détermination de la dimension homologique globale des algèbres de Weyl. (45 #1995)
 Schmitt, Heinz Grundtatsachen über lokale Kohomologiemoduln. (57 #16278)
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 Stöhr, Karl-Otto Funktoren in der Kategorie der lokal kompakten Moduln. (45 #251)
 Sweedler, Moss Eisenberg Groups of simple algebras. (51 #587)
 Takeuchi, Mitsuhiro Free Hopf algebras generated by coalgebras. (45 #1958)
 Trushin, David S. A note on the representation type of pointed irreducible coalgebras and unipotent algebras. (56 #3072)
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18H20 Cohomology and homology of commutative rings [See also 13Dxx.]

- André, Michel ★Homologie des algèbres commutatives. 50 #4707
 Algèbres graduées associées et algèbres symétriques plates. 51 #3266
 Avramov, Luchezar L. The Hopf algebra of a local ring. (Russian) 50 #2309
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 Buchsbaum, David A. Homological and commutative algebra. 50 #13203
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 Philippe, Anne Morphisme net d'anneaux, et descente. 48 #11260
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- André, Michel Homologie des algèbres commutatives. (54 #12748)
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 Dobbs, David E. Amitsur cohomology of algebraic number rings. (46 #7214)
 Kosaki, Kotarō On Amitsur cohomology of Witt rings of non-singular symmetric bilinear forms. (55 #10449)
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18H25 Cohomology of Lie algebras [See also 17B55.]

- Bhatwadekar, S. M. On the global dimension of some filtered algebras. 53 #8200
 Hochschild, G. Lie algebra cohomology and affine algebraic groups. 48 #6216
 Jakovlev, N. N. The cohomology of the Witt algebra. (Russian) 52 #10851

- Leger, George F. (with Luks, Eugene M.) Cohomology and weight systems for nilpotent Lie algebras. 49 #388
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